



U.S. Department
of Transportation

National Highway
Traffic Safety
Administration

400 Seventh Street, S.W.
Washington, D.C. 20590

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

*** *** ***



AUTO SAFETY HOTLINE
(800) 424-9393
Wash. D.C. Area 366-0123

Case Vehicle (A): 1999 Dodge
 Type: Ram 1500 Quad Cab, 4x2 pickup
 Driver: 33-year-old male
 CDC: 71-FLEW-4

SITUATION

(Slides 1, 2) On a cloudy night, case vehicle (A) was traveling east at an unknown speed on a gravel road in a rural area. The road surface was dry, it was dark, and the speed limit was 55 mph (89 kph). The driver had been drinking alcoholic beverages, and lost control of the vehicle on the gravel road. (Slides 3, 4, 5, 6, 7 and 8) The vehicle exited the south edge of the road and struck a 50-cm diameter tree with its left-front corner. After the impact, the vehicle rotated counterclockwise and came to rest on the road facing southwest. The unbelted driver was completely ejected out the driver-side window frame of the vehicle and was found lying on the ground. He was transported to the hospital by ambulance and the vehicle was towed from the scene due to damage. The driver's blood alcohol content was .22 percent.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

(Slides 9, 10) The direct damage to the front of case vehicle (A) began at the left-front bumper corner and extended 54 cm across the front, resulting in 30-percent vehicle overlap. The maximum crush was 78 cm to the left-front bumper corner.

Using the WinSMASH accident-reconstruction program and c-values measured for (slides 11, 12, 13, 14, 15 and 16) case vehicle (A), the impact severity was calculated for the frontal impact.

Vehicle	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	EBS	52 (32)	-49 (-30)	18 (11)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

(Slides 17, 18 and 19) The front bumper and grille were severely damaged, both headlights were broken, and the front end was shifted to the right. (Slides 20, 21) The hood was severely crushed

and pushed rearward, the damaged hood latch was jammed, and both hood hinges were damaged, but not separated. The rear edge of the hood was elevated, but it did not contact the windshield. (Slide 22) The entire windshield was cracked.

(Slide 23) On the left side, the fender was crushed and shifted to the right, and the left upper and lower A-pillars were deformed. (Slide 24) The left-front wheel was damaged and the left wheelbase was decreased by 4 cm. (Slides 25, 26 and 27) Also, both left-side doors were damaged and jammed closed, the driver door window glass was broken, and the upper half of the door window frame was severely bent outward and down from driver loading during ejection. (Slide 28) There was no damage to the left side of the truck bed. (Slide 29) There was no damage to the rear of case vehicle (A).

(Slide 30) On the right side, the fender was deformed and shifted to the right, and the right-front wheel was damaged. (Slides 31, 32 and 33) There was no other damage to the right side and no change in the right wheelbase.

Interior

(Slide 34) This vehicle is equipped with steering-wheel and passenger frontal-impact airbags, which deployed during this frontal impact. (Slides 35, 36) There was no damage to the airbags, and no visible contact marks on the airbag skins. (Slides 37, 38 and 39) The bottom half of the steering-wheel rim was bent and the shear capsules were completely separated, allowing the steering column to rotate down and to the left. (Slides 40, 41) The upper and mid portions of the instrument panel, and the knee bolster were damaged. (Slide 42) The driver door interior, and door window frame were damaged and severely bowed outward from driver contact. (Slides 43, 44) Also, the driver door hardware and door armrest were deformed, and the door window glass was broken. (Slide 45) There was no visible damage to the roof headlining, although there was a possible scuff mark just above the A-pillar. (Slide 46) There was damage to the vertical console area and the control knobs on the instrument panel. (Slides 47, 48, 49 and 50) There was no damage to the glove box area and no deformation to, or contacts on, the roof area or the left or right A-pillars. Both front seatbacks were rotated forward and the driver seat adjuster was jammed. (Slide 51) There was no damage to the rear-seat area. (Slides 52, 53) The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
driver	toe pan	25	to rear
	floor	10	up
right-front	toe pan	34	to rear

OCCUPANT KINEMATICS AND INJURIES

(Slide 54) The 33-year-old, 6-ft, 1-in, 265-lb male driver was not wearing the available three-point belt, and the airbag deployed. (Slide 55) The three-point belt was retracted into the driver seatback the pretensioner was locked, and there were no visible markings on the belt webbing, D-ring, or latch assembly.

(Slides 56, 57) During the frontal impact, the driver moved forward relative to the vehicle interior, into the airbag and possibly into the steering wheel. (Slides 58, 59) As the vehicle rotated counterclockwise, the unbelted driver moved to the left relative to the vehicle interior, as evidenced by damage to the driver door interior and door window frame, and the fact that the window frame and door were bowed outward. The driver was completely ejected from an opening between the window frame and roof of the vehicle, and landed on the ground at an unknown distance from the vehicle.

The driver sustained a subarachnoid hemorrhage to the left frontal portion of his skull and had a Glasgow Coma Score of 3 upon arrival at the hospital. He also sustained a contusion to his left scalp and a 4.5-cm laceration to his left eyelid and eye. He sustained a contusion to his right shoulder. (Slides 60, 61, and 62) All of these injuries are due to contact with the driver door interior or door window frame during ejection, from contact with the ground, or possibly from contact with the roof and roof siderail.

The following table and attached drawing (slide 63) summarize the injuries for the unbelted driver.

Occupant: Driver
 Restraints: 3-point belt not worn; airbag deployed

Age: 33 years
 Stature: 185 cm (6 ft, 1 in)

Gender: Male
 Mass: 120 kg (265 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Subarachnoid hemorrhage, left frontal skull (GCS = 3)	3			Ground (ejection), door/window frame, roof siderail
Contusion, left scalp	1			Ground (ejection), door/window frame, roof siderail
4.5-cm laceration, left eyelid and eye	1			Ground (ejection), door/window frame, roof siderail
Contusion, right shoulder	1			Ground (ejection), door/window frame, roof siderail
<u>Maximum A.I.S. Level</u>	<u>3</u>			
<u>Injury Severity Score</u>	<u>10</u>			
Blood alcohol content is .22 percent				
Driver was completely ejected from vehicle				

TIME

DATE OF COLLISION

 / /
m m d d y y y y

HOUR OF COLLISION
(24 HOUR CLOCK)

21 24

LOCATION

STATE:

STATE FIPS CODE

25 26

AREA

- (1) URBAN
(2) RURAL
(9) UNKNOWN

27

ENVIRONMENTAL CONDITIONS

LIMITED-ACCESS HIGHWAY

- (0) NO
(1) YES
(9) UNKNOWN

28

ROAD, TOTAL TRAFFIC LANES
(FOR CASE VEHICLE)

- (1) 1-LANE
(2) 2-LANES
(3) 3-LANES
(4) 4 OR MORE LANES
(5) DIVIDED, 4 OR MORE LANES
(6) PARKING LOT/DRIVEWAY
(7) OTHER:
(9) UNKNOWN

29

INTERSECTING RD, TOTAL LANES
CHOOSE FROM ABOVE LIST, OR

- (8) NOT APPLICABLE

30

TYPE OF ROAD SURFACE

- (1) ASPHALT
(2) CONCRETE
(3) GRAVEL
(4) MORE THAN ONE (CIRCLE EACH)
(7) OTHER:
(9) UNKNOWN

31

ROAD DEFECTS

- (0) NO
(1) YES
(9) UNKNOWN

32

ENVIRONMENTAL CONDITIONS

CONSTRUCTION ZONE

- (0) NO
(1) YES
(9) UNKNOWN

33

ROAD ALIGNMENT
VERTICAL PLANE

- (1) LEVEL
(2) CREST OF HILL
(3) SLOPE (2%)
(4) BOTTOM OF HILL
(9) UNKNOWN

34

ROAD ALIGNMENT
HORIZONTAL PLANE

- (1) STRAIGHT
(2) CURVE
(3) T - SHAPED
(4) Y - SHAPED
(7) OTHER:
(9) UNKNOWN

35

SURFACE COVERING

- (10) DRY

(21) WATER - DAMP
(22) WATER - WET
(23) WATER - PUDDLED
(29) WATER - AMOUNT UNKNOWN

(31) SNOW - LOOSE
(32) SNOW - PACKED
(39) SNOW - CONDITION UNKNOWN

(41) ICE
(51) SLUSH
(61) SPILLED GRAVEL
(71) OTHER:
(99) UNKNOWN

36 37

VISIBILITY LIMITATION
(FOR CASE VEHICLE)

- (0) NONE
(1) CLOUDY/DARK
(2) FOG
(3) SMOKE
(4) WINDSHIELD CONDITION
(5) GLARE
(6) RAIN
(7) OTHER:
(8) ICE/SNOW
(9) UNKNOWN

38

VISIBILITY OBSTRUCTION
(FOR CASE VEHICLE)

- (0) NONE
(1) BUILDING
(2) SIGN
(3) VEGETATION (E.G. BUSHES, SHRUBS)
(4) TREE
(5) HILL OR CURVE IN ROAD
(6) VEHICLE IN TRANSPORT
(7) OTHER:
(8) PARKED VEHICLE
(9) UNKNOWN

39

GENERAL INFORMATION GI-3

CRASH DETAILS

CASE VEHICLE AND OBJECT

- (0) NO
(1) YES
(9) UNKNOWN

1
47

CASE VEHICLE ROLLOVER

- (0) NO ROLLOVER
(1) YES, FIRST EVENT
(2) YES, SUBSEQUENT EVENT
(3) YES, SEQUENCE UNKNOWN
(9) UNKNOWN

0
48

CASE VEHICLE RAN OFF ROADWAY
(BEFORE FIRST IMPACT)

- (0) NO
(1) YES
(9) UNKNOWN

1
49

MOVING CASE VEHICLE AND
CONTACTED MOVING VEHICLE

- (0) NO
(1) YES
(9) UNKNOWN

0
50

CASE VEHICLE AND
CONTACTED STOPPED VEHICLE

- (0) NO
(1) YES
(9) UNKNOWN

0
51

STOPPED CASE VEHICLE AND
CONTACTED VEHICLE

- (0) NO
(1) YES
(9) UNKNOWN

0
52

TOTAL NUMBER
OF VEHICLES CONTACTED
BY CASE VEHICLE IN CRASH

- (8) 8 OR MORE
(9) UNKNOWN

0
53

ANY FIRE IN THIS CRASH
(NOT JUST CASE VEHICLE)

- (0) NO
(1) YES
(9) UNKNOWN

0
54

HIGHEST POLICE INJURY
SEVERITY CODE IN CRASH
(NOT JUST CASE VEHICLE)

- (0) O - NO INJURY
(1) C - POSSIBLE INJURY
(2) B - NON-INCAPACITATING INJURY
(3) A - INCAPACITATING INJURY
(4) K - FATAL
(5) INJURED, SEVERITY UNKNOWN
(6) DIED PRIOR TO ACCIDENT
(7) NON-FATAL INJURY
SEVERITY UNKNOWN
(9) UNKNOWN

3
55

DRIVER IMPAIRMENT

DRIVER ALCOHOL INVOLVEMENT
(CASE VEHICLE)

- (0) NONE
(1) YES
(9) UNKNOWN/NOT REPORTED/
NO DRIVER

1
56

DRIVER ALCOHOL BAC
(CASE VEHICLE)

- (80) NO TEST
(90) CHEMICAL TESTS, NO RESULTS
(95) AUTOPSY, NO RESULTS
(99) UNKNOWN

22
57 58

WAS THERE MENTION OF DRIVER
IMPAIRMENT FOR CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

0
59

LIST IMPAIRMENTS MENTIONED:

Post - Crash Detail

MANNER CASE VEHICLE
LEFT SCENE

- (1) DRIVEN
(2) TOWED DUE TO DAMAGE
(3) TOWED, NOT DUE TO DAMAGE
(4) TOWED, REASON UNKNOWN
(9) UNKNOWN

2
60

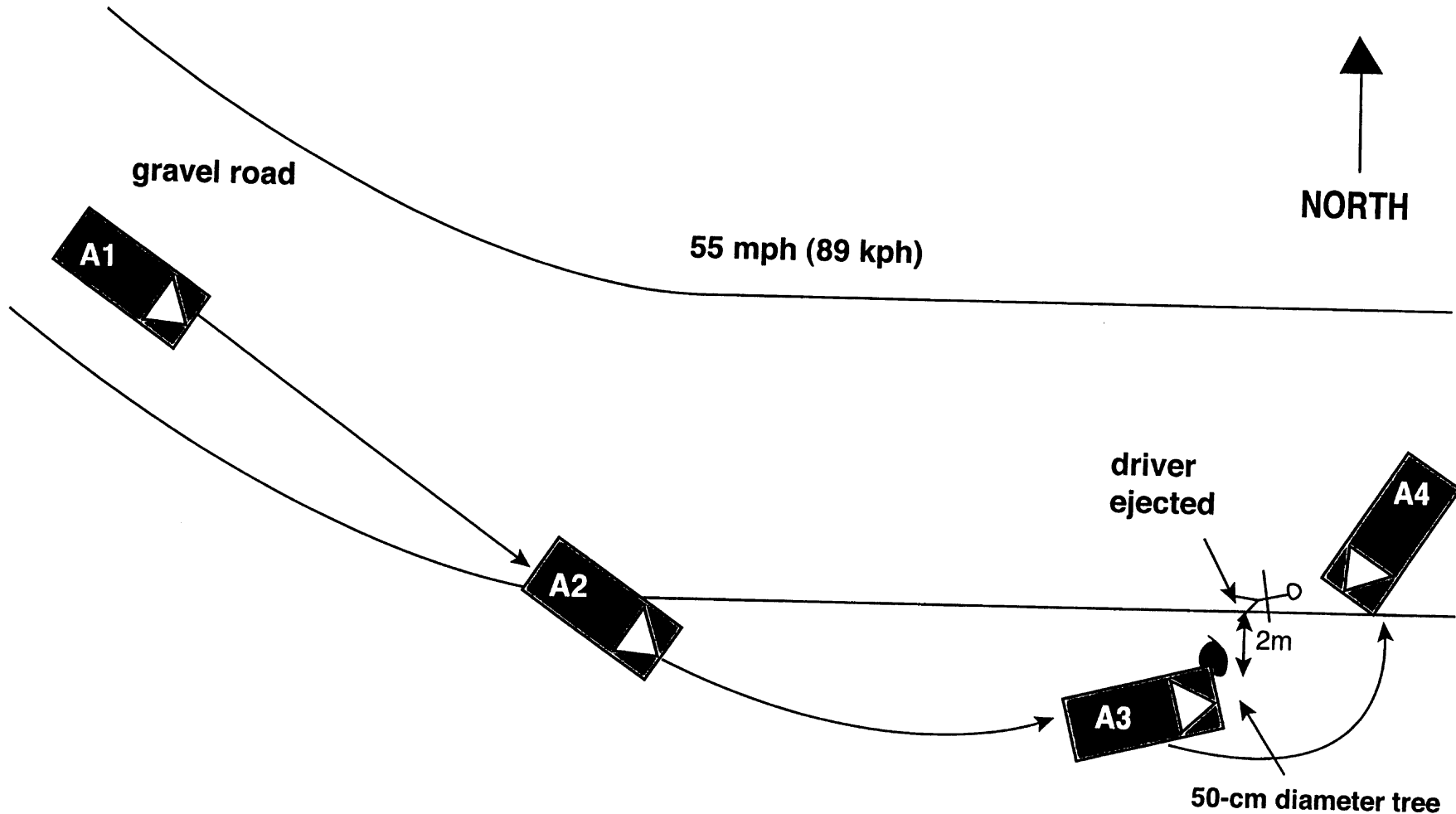
ACCIDENT SCHEMATIC

ACCIDENT DESCRIPTION: CASE VEHICLE (A) WAS TRAVELING
EAST AT AN UNKNOWN SPEED ON A GRAVEL
ROAD. THE DRIVER LOST CONTROL OF THE VEHICLE,
EXITED THE SOUTH EDGE OF THE ROAD, AND STRUCK A 50-CM DIAMETER
TREE LOCATED 2-M SOUTH OF THE ROAD EDGE. AFTER THE IMPACT, CASE VEHICLE
(A) ROTATED COUNTERCLOCKWISE AND THE DRIVER WAS COMPLETELY EJECTED FROM THE
VEHICLE.

CASE VEHICLE (A): 1999 DODGE RAM PU
 OTHER VEHICLE (B): _____
 THIRD VEHICLE (C): _____



NORTH



Duplicate columns 1-8
from the previous card.

Module O V Format 0 4
9 10 11 12

OTHER VEHICLE OV-1

MAKE: _____

CARGO: _____

MODEL: _____

VIN

13

29

MANUFAC/BODY CODE

30

34

NOT APPLICABLE

MAKE/MODEL CODE

38

MODEL YEAR

39

42

VEHICLE MASS (kg)

43

48

IF SEPARATE REPORT WAS MADE,
GIVE VEHICLE NUMBER

NUMBER OF OCCUPANTS
(ENTER 9'S IF UNKNOWN)

51

TRAVELING SPEED (km/h)

54

- (000) PARKED OR STOPPED
- (995) JUST STARTING UP
- (996) BACKING UP
- (997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
- (998) SPEED EXCESSIVE (BUT UNKNOWN)
- (999) UNKNOWN

HIGHEST POLICE INJURY SEVERITY
CODE FOR THIS VEHICLE

- (0) O - NO INJURY
- (1) C - POSSIBLE INJURY
- (2) B - NON-INCAPACITATING INJURY
- (3) A - INCAPACITATING INJURY
- (4) K - FATAL
- (5) INJURED, SEVERITY UNKNOWN
- (6) DIED PRIOR TO ACCIDENT
- (7) NON-FATAL INJURY
SEVERITY UNKNOWN
- (8) UNOCCUPIED VEHICLE
(NOT APPLICABLE)
- (9) UNKNOWN

55

NOT APPLICABLE

VEHICLE TYPE

PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP CAR
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

56

57

MULTIPURPOSE PASSENGER VEHICLE

- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",
E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107",
E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) VAN
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOBTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

(99) UNKNOWN

WHEELBASE (cm)

(999) UNKNOWN

58 59 60

Duplicate columns 1-8
from the previous card.

Module 0 V Format 0 2
9 10 11 12

OTHER VEHICLE OV-2

ORIGINAL SPECIFICATIONS

Wheelbase	_____ cm	Front Overhang	_____ cm
			22 _____ 24
Curb Weight	_____ kg	Rear Overhang	_____ cm
			25 _____ 27
Average Track Width	_____ cm	Undeformed End Width (UEW)	_____ cm
	13 _____ 15		28 _____ 30
Overall Length	_____ cm	Engine Displacement	_____ L
	16 _____ 18		.31 _____ 32
Overall Width (OAW)	_____ cm	Engine: # of Cylinders	_____
	19 _____ 21		33 _____ 34

VEHICLE DAMAGE

NOT APPLICABLE

FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) _____ cm
35 _____ 37

Front-End Overlap (Percent) = $\frac{DDL}{UEW}$ _____ %
38 39

Vehicle Overlap (Percent) = $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$ _____ %
40 41

Duplicate columns 1-8
from the previous card.

Module V D Format 0 4
9 10 11 12

VEHICLE DESCRIPTION VD-1

MAKE: DODGE
MODEL: RAM 1500 QUAD CAB 2WD

CARGO: UNKNOWN

VIN 1 B 7 H C 1 3 Z X X J [REDACTED]
13 29

MANUFAC/BODY CODE 1 3 2 1 2
30 34

MAKE/MODEL CODE 3 2 3 5
38

MODEL YEAR 1 9 9 9
39 42

VEHICLE MASS (kg) 0 0 2 1 5 8
43 48

ODOMETER (km)
(ENTER 9'S IF UNKNOWN) 8 8 8 8 8 8
(ENTER 8'S IF ELECTRONIC) 49 54

NUMBER OF OCCUPANTS 0 1
(ENTER 9'S IF UNKNOWN) 56

TRAVELING SPEED (km/h) 9 9 9
59

- (000) PARKED OR STOPPED
(995) JUST STARTING UP
(996) BACKING UP
(997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
(998) SPEED EXCESSIVE (BUT UNKNOWN)
(999) UNKNOWN

VEHICLE TYPE

PASSENGER VEHICLE

- (11) 2-DOOR HARDTOP (NO UPPER B-PILLAR)
(12) 2-DOOR SEDAN OR COUPE
(ANY UPPER B-PILLAR)
(13) 4-DOOR HARDTOP
(14) 4-DOOR SEDAN
(15) STATION WAGON
(16) CONVERTIBLE
(18) OTHER PASS. VEH. :
(19) PASSENGER VEHICLE, TYPE UNKNOWN

MULTIPURPOSE PASSENGER VEHICLE

- (21) SMALL UTILITY (E.G. JEEP, SCOUT, BRONCO)
(22) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
(23) VAN, SIZE UNKNOWN
(24) VAN, SMALL (MINI)
(25) VAN, LARGE
(29) MPV, TYPE UNKNOWN
(30) MOTOR HOME

TRUCK

- (31) PICKUP TRUCK, UNKNOWN
(32) PICKUP TRUCK, SMALL (DOWNSIZED)
(33) PICKUP TRUCK, LARGE

(99) UNKNOWN

3 3
60 61

STOLEN VEHICLE

- (0) NO
(1) YES
(8) NOT COLLECTED
(9) UNKNOWN

8
62

BODY STRUCTURE

- (1) BODY & FRAME
(2) UNITIZED
(3) INTEGRAL-STUB FRAME
(4) BODY & PLATFORM FRAME
(E.G. VW BUG)
(5) PARTIALLY UNITIZED
(7) OTHER:
(9) UNKNOWN

1
63

TRANSMISSION

- (0) NONE
(1) AUTOMATIC
(2) MANUAL
(9) UNKNOWN

1
64

LOCATION OF TRANSMISSION SELECTOR LEVER

- (1) FLOOR
(2) CONSOLE
(3) COLUMN
(7) OTHER:
(9) UNKNOWN

3
65

STEERING

- (1) POWER
(2) MANUAL
(9) UNKNOWN

1
66

BRAKES

- (1) POWER
(2) MANUAL
(9) UNKNOWN

1
67

TYPE OF BRAKES

- (1) DRUM, ALL WHEELS
- (2) DISC, FRONT WHEELS
- (3) DISC, ALL WHEELS
- (9) UNKNOWN

2
68

WHEELBASE (cm)
(999) Unknown

353
76 77 78

BRAKE ANTI-LOCK DEVICE

- (0) NONE INSTALLED
- (1) TWO-WHEEL
- (2) FOUR-WHEEL
- (7) EQUIPPED, UNKNOWN WHEELS
- (9) UNKNOWN

2
69

PLASTIC ANTI-LACERATIVE
INNER LAYER GLASS EQUIPPED

- (0) NONE
- (1) WINDSHIELD
- (2) WINDSHIELD AND SIDE
- (7) OTHER
- (9) UNKNOWN

0
79

AIR CONDITIONING IN VEHICLE

- (0) NO
- (1) YES
- (8) NOT COLLECTED
- (9) UNKNOWN

8
70

TYPE OF DRIVE

- (1) REAR WHEEL
- (2) FRONT WHEEL
- (3) FOUR WHEEL
- (4) ALL WHEEL DRIVE
- (9) UNKNOWN

1
71

DUAL REAR WHEELS

- (0) NO
- (1) YES
- (9) UNKNOWN

0
72

ORIGINAL TYPE
OF RESTRAINT SYSTEM

- (1) ACTIVE BELT
- (2) PASSIVE BELT
- (3) AIRBAG
- (4) KNEE BOLSTERS
- (7) OTHER: _____
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

3
73

EQUIPPED WITH ROLL BAR

- (0) NO
- (1) YES
- (9) UNKNOWN

0
74

TYPE OF ROOF

- (0) NONE
- (1) SOLID
- (2) T-TOP CLOSED
- (3) T-TOP OPEN
- (4) SUN ROOF CLOSED
- (5) SUN ROOF OPEN
- (6) CONVERTIBLE CLOSED
- (7) CONVERTIBLE OPEN
- (8) OTHER: _____
- (9) UNKNOWN

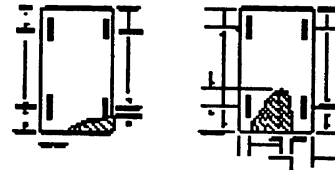
1
75

FIELD INVESTIGATOR INSTRUCTIONS:

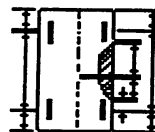
1. INDICATE CRUSHED AREAS BY OUT-LINING NEW PERIMETER OF VEHICLE AND SHADING THE DAMAGED AREAS ON THE LARGE SKETCH ON PAGE VD-3. USE AS MANY SKETCHES AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.
2. ENTER THE DIMENSIONS ON THE SKETCH(ES) MEASURED TO THE POINT OF MAXIMUM PENETRATION BY THE OBJECT(S) CONTACTED. USE THE EXAMPLES BELOW AS A GUIDE.
3. ENTER THE THREE DIMENSIONS TO THE CENTER OF THE WHEELS (WHEELBASE, FRONT AND REAR OVERHANGS) ON BOTH SIDES OF THE CAR.
4. ADD OTHER DIMENSIONS AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.

EXAMPLES:

FRONT OR REAR



SIDE



ROOF (REFERENCE TO
TOP OF DOOR SILL
OR WINDOW SILL)



ORIGINAL SPECIFICATIONS

Wheelbase 353 cm

Front Overhang 096 cm
22 24

Curb Weight 2158 kg

Rear Overhang 121 cm
25 27 WITH
SUR
BUMPER

Average Track Width 170 cm
13 15

Undeformed End Width (UEW) 188 cm
28 30

Overall Length 570 cm
16 18

Engine Displacement 5.9 L
31 32

Overall Width (OAW) 201 cm
19 21

Engine: # of Cylinders 08 MAGNUM
33 34

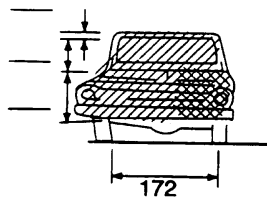
$$A = 128 \div 6 = 21.3 \text{ ft} + 1$$

$$42.6 \quad 2$$

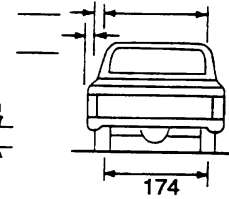
$$63.9 \quad 3$$

$$85.5 \quad 4$$

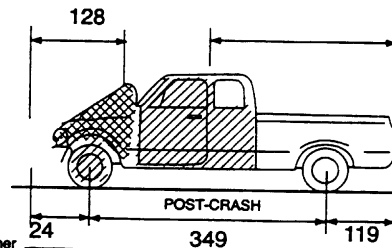
VEHICLE DAMAGE



Original
Bumper Height

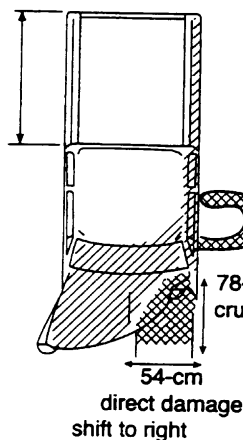


stringline was set up at
451 (wb and foh) should
have been 449 subtract
2-cm from all c's



Bumper corner
Stringline

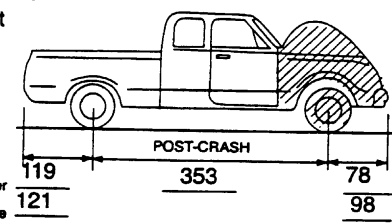
Bumper corner
Stringline



window frame
bowed out

78-cm max
crush at C1

54-cm
direct damage
shift to right



Bumper corner
Stringline

Bumper corner
Stringline

FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) 054 cm
35 37

Front-End Overlap (Percent) = $\frac{DDL}{UEW}$

54
188

29 %
38 39

Vehicle Overlap (Percent) = $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$

54 + 1/2 (201 - 188)
201

30 %
40 41

Duplicate columns 1-8
from the previous card.

Module D A Format 0 2
9 10 11 12

DAMAGE DA-1

PRIMARY	CASE VEHICLE PRIMARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	1	TRU
IMPACT SPEED (km/h)	999	998
ESTIMATED BY	1	1
CRUSH (cm)	078	998
CDC #1	71-FLEW-4	98.0000.0
CDC #2	98.0000.0	98.0000.0

11 o'clock
+60
for Right
SHIFT

Duplicate columns 1-8
from the previous card.

Module D A Format 0 3
9 10 11 12

SECONDARY	CASE VEHICLE SECONDARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER		
IMPACT SPEED (km/h)		
ESTIMATED BY		
CRUSH (cm)		
CDC #1		
CDC #2		

CODES

EVENT NUMBER

- (8) NOT APPLICABLE
(9) UNKNOWN

IMPACT SPEED

- (998) NOT APPLICABLE
(999) UNKNOWN

IMPACT SPEED ESTIMATOR

- (1) INVESTIGATOR
(2) DRIVER
(3) POLICE
(4) "CRASH" PROGRAM
(5) OTHER COMPUTER PROGRAM
SPECIFY: _____
(7) OTHER: _____
(8) NOT APPLICABLE
(NO VEHICLE/NO IMPACT)

CRUSH

- (998) NOT APPLICABLE
(NO VEHICLE/DAMAGE)
(999) UNKNOWN

CDC

- (9800000) NOT APPLICABLE
(9900000) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module D A Format 0 1
9 10 11 12

DAMAGE DA-2

MAXIMUM SHEET METAL CRUSH

(cm) (999) UNKNOWN

FRONT 078
13 15

RIGHT SIDE 000
16 18

REAR 000
19 21

LEFT SIDE 000
22 24

ROOF 000
25 27

OTHER 000
28 30

CHRONOLOGICAL SEQUENCE OF DAMAGE/INJURY PRODUCING CRASH EVENTS FOR CASE VEHICLE

NOTE: IF CHRONOLOGICAL ORDER
IS UNKNOWN, EVENT
ORDER IS OPTIONAL.

DO YOU KNOW THIS TABLE
TO BE IN CHRONOLOGICAL ORDER? 1
31

(0) NO
(1) YES

EVENT NUMBER

IMPACT LOCATION

- (1) ON ROADWAY
- (2) SHOULDER/MEDIAN/GORE
- (3) ON ROADSIDE
- (4) OUTSIDE ROADSIDE
RIGHT-OF-WAY
- (5) OTHER
- (6) OFF ROADWAY, LOC. UNK.
- (9) UNKNOWN

IMPACT CONFIGURATION

FOR CODES, SEE TABLE
ON PAGE DA-3.

OBJECT/VEHICLE CONTACTED

FOR CODES, SEE TABLE
ON PAGE DA-4.

1

3
32

17
34

77
36

#2

—
37

—
39

—
41

#3

—
42

—
44

—
46

#4

—
47

—
49

—
51

#5

—
52

—
54

—
56

#6

—
57

—
59

—
61

#7

—
62

—
64

—
66

CODES FOR
IMPACT CONFIGURATIONFRONT OF CASE VEHICLE

- (11) AND FRONT OF CONTACTED VEHICLE
- (13) AND SIDE OF CONTACTED VEHICLE
- (14) AND REAR OF CONTACTED VEHICLE
- (16) ENDSWIPED BY CONTACTED VEHICLE
- (17) AND OBJECT
- (19) AND UNKNOWN OTHER VEHICLE CONFIGURATION

LEFT SIDE OF CASE VEHICLE

- (21) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (22) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (23) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (24) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (25) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (26) SIDESWIPED BY CONTACTED VEHICLE
- (27) AND OBJECT
- (29) AND UNKNOWN OTHER VEHICLE CONFIGURATION

REAR OF CASE VEHICLE

- (31) AND FRONT OF CONTACTED VEHICLE
- (33) AND SIDE OF CONTACTED VEHICLE
- (34) AND REAR OF CONTACTED VEHICLE
- (36) ENDSWIPED BY CONTACTED VEHICLE
- (37) AND OBJECT
- (39) AND UNKNOWN OTHER VEHICLE CONFIGURATION

RIGHT SIDE OF CASE VEHICLE

- (41) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (42) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (43) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (44) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (45) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (46) SIDESWIPED BY CONTACTED VEHICLE
- (47) AND OBJECT
- (49) AND UNKNOWN OTHER VEHICLE CONFIGURATION

OTHER

- (57) VEHICLE TO OBJECT
- (58) VEHICLE TO VEHICLE
- (59) VEHICLE TO VEHICLE, CONFIGURATION UNKNOWN

ROLLOVER

- (61) LESS THAN 360°
- (62) 360° OR MORE
- (69) DETAILS UNKNOWN

UNKNOWN

- (99) IMPACT TYPE UNKNOWN

CODES FOR VEHICLE/OBJECT CONTACTED

VEHICLE/OBJECT GROUPS

- (00) NO OBJECT
- (01) - (39) PASSENGER VEHICLE & TRUCK
- (40) - (69) OTHER VEHICLE
- (70) - (76) PEDESTRIAN & ON-ROADWAY OBJECT
- (77) - (97) OFF-ROADWAY OBJECT

- (98) OTHER (DESCRIBE)
- (99) UNKNOWN

PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

SIZE	WHEELBASE
SUB-MINI	< 2286 mm (< 90")
MINI	2286 - 2412 mm (90" - 94.9")
SUB-COMPACT	2413 - 2539 mm (95" - 99.9")
COMPACT	2540 - 2666 mm (100" - 104.9")
INTERMEDIATE	2667 - 2793 mm (105" - 109.9")
FULL	2794 - 2920 mm (110" - 114.9")
LARGE	2921 - 3174 mm (115" - 124.9")
LIMOUSINE	> 3175 mm (> 125")

MULTIPURPOSE PASSENGER VEHICLE

- (11) SMALL VAN (MINI)
- (12) PICKUP
- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",
E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107",
E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) SMALL VAN (E.G. ECONOLINE)
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOBTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

MOTORCYCLE

- (50) UNKNOWN MOTORCYCLE TYPE
- (51) 1 - 75 cc
- (52) 76 - 125 cc
- (53) 126 - 250 cc
- (54) 251 - 500 cc
- (55) 501 - 750 cc
- (56) 751 cc +
- (57) 3-WHEELS (OR WITH SIDECAR)

SPECIAL PURPOSE VEHICLE

- (60) UNKNOWN/OTHER SPECIAL VEHICLE (DESCRIBE)
- (61) SNOWMOBILE
- (62) ATV (ALL TERRAIN VEHICLE)
- (63) AMPHIBIOUS VEHICLE
- (64) FARM VEHICLE
- (65) CONSTRUCTION VEHICLE
- (66) TRAILER, PRIVATE (CAMPER)
- (67) TRAILER, COMMERCIAL (CARGO)
- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

OBJECT

- (70) PEDESTRIAN
- (71) BICYCLIST, OTHER PEDALCYCLIST
- (72) PEDESTRIAN CONVEYANCE (E.G. PERSON RIDING
ANIMAL, CART)
- (73) LARGE ANIMAL
- (74) FALLEN OBJECT (E.G. OBJECT DISLODGED FROM
OTHER VEHICLE, FALLEN TREE, ROCKS)
- (75) ROCKS
- (76) CONSTRUCTION EQUIPMENT (EXCLUDING (65))
- (77) SIGN POST, UTILITY POLE, TREE
- (78) DITCH
- (79) EMBANKMENT, SNOWBANK, RR TRACKS RR X
- (80) GROUND (ROLLOVER ONLY)
- (81) CURB (DAMAGE PRODUCING IMPACTS ONLY)
- (82) CULVERT
- (83) FENCE
- (84) HYDRANT, SHORT POST, STUMP
- (85) SMALL POST/TREE, RURAL MAIL BOX, MILE
MARKER, DELINEATOR
- (86) BUILDING
- (87) PIER, PILLAR, BRIDGE SUPPORT
- (88) ABUTMENT, RETAINING WALL
- (89) BRIDGE RAIL
- (90) GUARD RAIL, LEADING SECTION
- (91) GUARD RAIL, MIDDLE OR UNKNOWN
- (92) GUARD RAIL, TRAILING SECTION
- (93) GUARD POST (TIMBER, METAL, CONCRETE)
- (94) CABLE, FENCE BARRIER
- (95) CONCRETE BARRIER (MEDIAN)
- (96) IMPACT ATTENUATOR
- (97) BREAKAWAY FEATURES

Duplicate columns 1-8
from the previous card.

Module C R Format 0 1
9 10 11 12

CRASH RECONSTRUCTION CR-1

for ΔV

	CASE VEHICLE PRIMARY IMPACT			CASE VEHICLE SECONDARY IMPACT		
	CASE VEHICLE	CONTACTED VEHICLE		CASE VEHICLE	CONTACTED VEHICLE	
EVENT NUMBER	<u>1</u> 13			<u>47</u>		
ΔV (km/h) TOTAL	<u>052</u> 14 15 16	<u>8-</u> 32 33 34		<u>48 49 50</u>	<u>66 67 68</u>	
LONGITUDINAL*	<u>-049</u> 17 20	<u>8-</u> 35 38		<u>51 54</u>	<u>69 72</u>	
LATERAL*	<u>+018</u> 21 24	<u>8-</u> 39 42		<u>55 58</u>	<u>73 76</u>	
*NOTE: THESE ΔV COMPONENTS MUST INCLUDE SIGN.						
EXAMPLES: 10 km/h = <u>+010</u> -7 km/h = <u>-007</u>						
ENERGY DISSIPATED BY CRUSH (kj)	<u>0260</u> 25 28	<u>8-</u> 43 46		<u>59 62</u>	<u>77 80</u>	
RECONSTRUCTION						
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	<u>22</u> 29 30			<u>63 64</u>		
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL						
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL						
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL						
NOT RECONSTRUCTED BECAUSE						
(02) INSUFFICIENT DATA						
(03) EXCESSIVE UNDERRIDE/ OVERRIDE						
(04) ROLLOVER						
(05) VAULTING						
(06) OTHER TRAVEL IN MORE THAN ONE PLANE						
(07) NON-HORIZONTAL FORCE						
(08) SIDESWIPE-TYPE DAMAGE						
(09) YIELDING OBJECT						
(10) OTHER: _____						
(11) AT LEAST ONE VEHICLE BEYOND SCOPE						
(12) OTHER VEHICLE NOT INSPECTED						
MODE						
(1) CDC ONLY						
(2) CDC & DETAILED DAMAGE	<u>2</u> 31			<u>65</u>		
(3) TRAJECTORY & CDC						
(4) TRAJECTORY & CDC & DETAILED DAMAGE						
(5) NOT RECONSTRUCTED						
COMPUTER PROGRAM SPECIFY: <u>WINSIM</u>						

Duplicate columns 1-8
from the previous card.

Module C R Format 0 2
9 10 11 12

CRASH RECONSTRUCTION CR-2

for EBS

	CASE VEHICLE PRIMARY IMPACT			CASE VEHICLE SECONDARY IMPACT		
	CASE VEHICLE	CONTACTED VEHICLE		CASE VEHICLE	CONTACTED VEHICLE	
EVENT NUMBER	<u>1</u> 13			<u>47</u>		
EBS (km/h) TOTAL	<u>052</u> 14 15 16	<u>8-</u> 32 33 34		<u> </u> 48 49 50	<u> </u> 66 67 68	
LONGITUDINAL*	<u>-049</u> 17 20	<u>8-</u> 35 38		<u> </u> 51 54	<u> </u> 69 72	
LATERAL*	<u>+018</u> 21 24	<u>8-</u> 39 42		<u> </u> 55 58	<u> </u> 73 76	
*NOTE: THESE EBS COMPONENTS MUST INCLUDE SIGN.						
EXAMPLES: 10 km/h = ± 0 1 0 -7 km/h = - 0 0 7						
ENERGY DISSIPATED BY CRUSH (kj)	<u>0260</u> 25 28	<u>8-</u> 43 46		<u> </u> 59 62	<u> </u> 77 80	
RECONSTRUCTION						
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	<u>22</u> 29 30			<u> </u> 63 64		
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL						
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL						
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL						
NOT RECONSTRUCTED BECAUSE						
(02) INSUFFICIENT DATA						
(03) EXCESSIVE UNDERRIDE/ OVERRIDE						
(04) ROLLOVER						
(05) VAULTING						
(06) OTHER TRAVEL IN MORE THAN ONE PLANE						
(07) NON-HORIZONTAL FORCE						
(08) SIDESWIPE-TYPE DAMAGE						
(09) YIELDING OBJECT						
(10) OTHER: _____						
(11) AT LEAST ONE VEHICLE BEYOND SCOPE						
(12) OTHER VEHICLE NOT INSPECTED						
MODE						
(1) CDC ONLY						
(2) CDC & DETAILED DAMAGE	<u>2</u> 31			<u> </u> 65		
(3) TRAJECTORY & CDC						
(4) TRAJECTORY & CDC & DETAILED DAMAGE						
(5) NOT RECONSTRUCTED						
COMPUTER PROGRAM SPECIFY: <u>WINSMART</u>						

NOTES:

1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
2. MEASURE C_1 TO C_6 FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
4. USE THE CENTER OF THE WHEELBASE AS THE CG.

CASE VEHICLE

LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

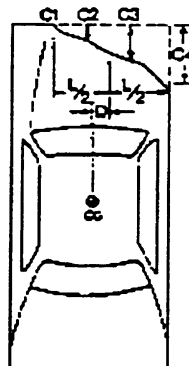
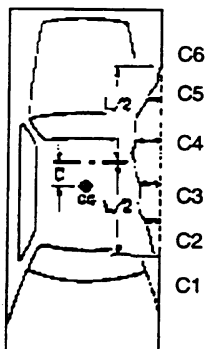
Specific Impact No.	Location of Direct Damage	Location of Field L
1	BEGINS AT LEFT-FRONT BUMPER CORNER 54-IN	RC TO BC

MAY CRUSH IS AT C1

STRING WAS SET AT
451. SHOULD BE 449
PER AMERICAN SPECS
SUBTRACT 2 FROM ALL
CLS.

PLANE:

- (1) Bumper
(2) Above Bumper
(3) Sill
(4) Above Sill
(5) Other _____
(9) Unknown



$$UEU = 188 \div 3 = 62.6$$

DL _____

UDL _____

$$D = 111 \div 2 = 55.5$$

$$54 \div 2 \quad \begin{array}{r} 27 \\ \hline 28.5 \end{array}$$

CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card).

Duplicate columns 1 - 12 for each completed line.

[illegible]

NOTES:

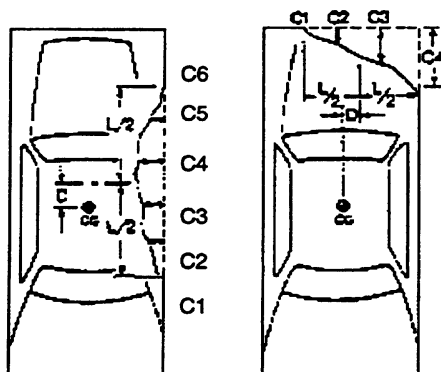
1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
2. MEASURE C_1 TO C_6 FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
4. USE THE CENTER OF THE WHEELBASE AS THE CG.

OTHER VEHICLE

LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L



PLANE:

- (1) Bumper
(2) Above Bumper
(3) Sill
(4) Above Sill
(5) Other _____
(9) Unknown

DL _____

UDL

CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

[illegible]

Duplicate columns 1-8
from the previous card.

Module W 9 10 Format 0 11 1 12

WHEELS AND TIRES

WT-1

WHEELS--DAMAGED

- (0) NO
- (1) YES
- (9) UNKNOWN

LF 1
13
RF 1
RR 0
LR 0
16

SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S)

LF P 245 75 R 16
25
RF _____
35
RR _____
45
LR _____
55

TIRE TREAD TYPE

- (1) REGULAR
- (2) SNOW
- (3) SLICKS
- (4) ALL WEATHER (MS)
- (7) OTHER: _____
- (9) UNKNOWN

LF 4
17
RF 4
RR 4
LR 4
20

CARCASS CONSTRUCTION

- (1) BIAS
- (2) BELTED BIAS
- (3) RADIAL
- (4) ELLIPTICAL
- (5) HI PRESSURE SPARE
- (6) SPACE SAVER SPARE
- (7) OTHER: _____
- (9) UNKNOWN

LF 3
21
RF 3
RR 3
LR 3
24

IF VEHICLE IS EQUIPPED WITH DUAL
WHEELS, COMPLETE FOR OUTER WHEELS
AND MAKE NOTES ON INNER WHEELS.

NOTES: _____

Duplicate columns 1-8
from the previous card.

Module F T Format 0 1
9 10 11 12

FUEL AND FUEL TANKS FT-1

TYPE OF PROPULSIVE FUEL (1) GASOLINE (2) DIESEL OIL (3) LPG (4) ELECTRIC (7) OTHER: _____ (9) UNKNOWN	<u>1</u> 13	AUXILIARY TANK TYPE (1) OEM TANK (2) AFTER MARKET TANK (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	<u>8</u> 21
MAIN TANK LOCATION	<u>322</u> 14 16	AUXILIARY TANK LOCATION	<u>888</u> 22 24
MAIN FILLER CAP LOCATION	<u>413</u> 17 19	AUXILIARY FILLER CAP LOCATION	<u>888</u> 25 27
MAIN TANK MATERIAL	<u>9</u> 26	AUXILIARY TANK MATERIAL	<u>8</u> 28

TANK AND FILLER CAP LOCATION CODES

FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & COWL
- (4) FORWARD OF COWL
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

SECOND DIGIT (LATERAL)

- (1) LEFT OF FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) RIGHT OF FRAME
- (4) DUAL, RIGHT & LEFT TANKS
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

THIRD DIGIT (VERTICAL)

- (1) BELOW FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) ABOVE FRAME
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

TANK MATERIAL CODES

- (1) STEEL
- (2) ALUMINUM
- (3) PLASTIC
- (7) OTHER
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module F L Format 0 1
9 10 11 12

FUEL LEAKAGE FL-1

DID FUEL LEAKAGE RESULT FROM A CRASH EVENT

(0) NO KNOWN LEAKAGE SKIP PAGE.

(1) YES COMPLETE PAGE.

0
13

LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	<u> </u> <u> </u> 14 15	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 21
#2	<u> </u> <u> </u> 22 23	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 29
#3	<u> </u> <u> </u> 30 31	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 37
#4	<u> </u> <u> </u> 38 39	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 45
#5	<u> </u> <u> </u> 46 47	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 53

I LEAKING COMPONENT

TANK AREA

- (11) MAIN FUEL TANK (INCLUDING VAPOR RECOVERY DOME)
- (12) AUXILIARY FUEL TANK
- (13) MAIN TANK FILLER TUBE
- (14) MAIN TANK CAP (GAS CAP)
- (15) AUXILIARY TANK FILLER TUBE
- (16) AUXILIARY TANK CAP (GAS CAP)
- (19) TANK AREA, DETAILS UNKNOWN

DELIVERY SYSTEM

- (21) FUEL FEED LINE (MAIN TANK TO FUEL PUMP)
- (22) FUEL FEED LINE (AUXILIARY TANK TO FUEL PUMP)
- (23) FUEL RETURN LINE (FUEL PUMP TO TANK)
- (24) INLINE FUEL FILTER
- (25) FUEL LINE (PUMP TO CARBURETOR OR INJECTOR PUMP)
- (26) CARBURETOR TO INJECTOR PUMP
- (27) FUEL PUMP
- (29) DELIVERY SYSTEM, DETAILS UNKNOWN

EVAPORATIVE EMISSION CONTROL SYSTEM

- (31) ATMOSPHERIC VENT PIPE (NON-EEC EQUIPPED)
- (32) EEC PIPE (VAPOR CANISTER TO CARBURETOR)

EEC SYSTEM (CONTINUED)

- (33) VAPOR RECOVERY HOSES (CANISTER TO CARBURETOR)
- (34) LIQUID-VAPOR SEPARATOR (UNLESS PART OF TANK)
- (35) CANISTER
- (39) EEC SYSTEM, DETAILS UNKNOWN
- (49) ENGINE COMPARTMENT, COMPONENT UNKNOWN
- (99) COMPONENT UNKNOWN

II COMPONENT SOURCE

- (1) OEM
- (2) AFTER MARKET
- (9) UNKNOWN

III TYPE OF DAMAGE

- (1) DENTED/CRUSHED
- (2) PUNCTURED
- (3) RUPTURED
- (4) SEVERED/GROSS TEARS
- (5) DISCONNECTED/DEFEATED
- (9) UNKNOWN

IV SEVERITY OF DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (4) DISCONNECTED/DEFEATED
- (9) UNKNOWN

V LOCATION OF LEAK

FIRST DIGIT (LONGITUDINAL LOCATION)

- (1) F, FORWARD OF COWL
- (2) P, BETWEEN COWL & REAR BULKHEAD
- (3) B, BEHIND REAR BULKHEAD
- (4) Y, F, & P
- (5) Z, P, & B
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

SECOND DIGIT (LATERAL LOCATION)

- (1) L, LEFT
- (2) C, CENTER
- (3) R, RIGHT
- (4) Y, LEFT CENTER (L & C)
- (5) Z, RIGHT CENTER (R & C)
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module F R Format 0 1
9 10 11 12

FIRE FR-1

WAS THERE FIRE IN OR ON CASE VEHICLE?

(0) NO SKIP PAGE.

(1) YES COMPLETE PAGE.

0
13

DID FIRE START IN CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

—
14

SEVERITY OF FIRE DAMAGE

- (1) MINOR
(2) MODERATE
(3) SEVERE
(9) UNKNOWN

—
16

FLAME PROPOGATION RATE

- (1) RAPID/EXPLOSIVE
(2) SLOW/MODERATE
(9) UNKNOWN

—
15

DID AN INJURY TO CASE
VEHICLE OCCUPANT RESULT FROM
FIRE IN OR ON CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

—
17

PROVIDE NOTES IF FIRE OCCURRED.

Duplicate columns 1-8
from the previous card.

Module E 9 D 10 Format 0 1
11 12

EXTERIOR DAMAGE

ED-1

HOOD PERFORMANCE

FOR THE FOLLOWING, USE CODES:

- (0) NO
- (1) YES
- (8) NOT APPLICABLE
- (9) UNKNOWN

HOOD LATCH(ES)- -RELEASED

0
13

-DAMAGED

1
14

-JAMMED

1
15

HOOD HINGES- -LEFT, DAMAGED

1
16

-LEFT, SEPARATED
(COMPLETE)

0
17

-RIGHT, DAMAGED

1
18

-RIGHT, SEPARATED
(COMPLETE)

0
19

HOOD REMAINED ON VEHICLE

1
20

REAR EDGE OF HOOD- -ELEVATED

1
21

-CONTACTED WINDSHIELD

0
22

-PENETRATED WINDSHIELD

8
23

HOOD LATCH LOCATION

- (1) FRONT OF VEHICLE
- (2) COWL AREA
- (3) SIDE
- (8) NOT APPLICABLE
- (9) UNKNOWN

1
24

STEERING COL FLEXIBLE COUPLING

FLEXIBLE COUPLING TYPE

- (0) NONE
- (1) FLEXIBLE MATERIAL
- (2) POT
- (3) SINGLE U-JOINT
- (4) DOUBLE U-JOINT
- (5) FLEXIBLE CABLE
- (6) COMBINATION OF ABOVE
(CIRCLE EACH)
- (7) OTHER: _____
- (8) EQUIPPED, TYPE UNKNOWN
- (9) UNKNOWN, IF EQUIPPED

9
26

COUPLING- -DAMAGED

9
27

(USE CODES
FROM HOOD
PERFORMANCE)

-SEPARATED
(COMPLETE)

9
28

ENG COMPART TELESCOPING UNIT

TYPE OF UNIT

- (00) NONE INSTALLED
- (01) - (07) SEE UNITS ON PAGE ED-2
- (88) NOT COLLECTED
- (97) OTHER: _____
- (98) EQUIPPED, TYPE UNKNOWN
- (99) UNKNOWN IF EQUIPPED

8 8
29 30

ORIGINAL LENGTH (mm)

F (OR H): _____

TELESCOPED LENGTH (mm)

G: _____

DIFFERENCE (mm)

F (OR H) - G

(IF LESS THAN 15mm, ENTER "000".)

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO
COMPRESSION
- (992) COMPRESSED, AMOUNT
UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT
EQUIPPED)
- (999) UNKNOWN

8 8 8
31 32 33

ENGINE OR TRANSMISSION MOUNT

SEPARATION (COMPLETE)

- (0) NO
- (1) YES
- (9) UNKNOWN

0
25

LEFT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

0
 34

LEFT DOORS

HOW DID DOORS
OPEN DURING COLLISION?

USE CODES:

(0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
 (2) DOOR-LATCH SEPARATION
 (3) LATCH-STRIKER SEPARATION
 (4) STRIKER-PILLAR SEPARATION
 (5) BODY DISTORTION
 (6) COMBINATION OF ABOVE
 (CIRCLE EACH)
 (7) OPENED, REASON UNKNOWN

- (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

LEFT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO
 (1) YES
 (4) NO SEPARATION, BUT DAMAGED
 (8) NOT APPLICABLE (NOT EQUIPPED)
 (9) UNKNOWN

-A-PILLAR, UPPER

4
 35

LOWER

4
 36

-B-PILLAR, UPPER

0
 37

LOWER

0
 38

-C-PILLAR, UPPER

0
 39

LOWER

0
 40

-D-PILLAR, UPPER

8
 41

LOWER

8
 42

-FRONT

0
 43

-REAR

0
 44

DOORS JAMMED CLOSED-

USE CODES:

- (0) NO
 (1) YES
 (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

-FRONT

1
 45

-REAR

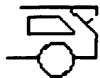
1
 46

REAR DOOR

REAR DOOR TYPE

- (0) NO DOOR (INCLUDES PICKUPS)
- (1) HATCHBACK
- (2) ONE-WAY TAILGATE
- (3) TWO-WAY TAILGATE
- (4) CLAMSHELL/DISAPPEARING TAILGATE
- (5) SINGLE DOOR
- (6) DOUBLE DOOR
- (9) UNKNOWN

Hatchback



One-way



Two-way



or



Clamshell



Single door



Double door

HOW DID DOOR
OPEN DURING COLLISION?

- (0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
- (2) DOOR-LATCH SEPARATION
- (3) LATCH-STRIKER SEPARATION
- (4) STRIKER-PILLAR SEPARATION
- (5) BODY DISTORTION
- (6) COMBINATION OF ABOVE
(CIRCLE EACH)
- (7) OPENED, REASON UNKNOWN
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

DOOR JAMMED CLOSED

- (0) NO
- (1) YES
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

0
47

8
48

8
49

OTHER REAR DAMAGE

WAS PARTITION TO LUGGAGE AREA
DAMAGED DURING COLLISION?

- (0) NO
- (1) YES
- (8) NOT APPLICABLE
- (9) UNKNOWN

8
50

SPARE TIRE

- (0) NO SPARE TIRE
- (1) NOT ATTACHED BEFORE COLLISION
- (2) ATTACHED, NOT SEPARATED IN COLLISION
- (3) ATTACHED, SEPARATED DUE TO COLLISION
- (8) NOT COLLECTED
- (9) UNKNOWN

8
51

TRAILER HITCH TYPE

- (0) NO HITCH

BALL-AND-SOCKET TYPES

- (1) TEMPORARY FRAMEWORK (E.G. RENTAL CLAMP-ON)
- (2) BUMPER-MOUNT ONLY (E.G. LIGHT TRUCK)
- (3) BUMPER-AND-FRAME (BUT NON-EQUALIZING)
- (4) LOAD EQUALIZING

OTHER TYPES

- (5) RING-AND-PINTLE
- (6) FIFTH-WHEEL (INCL. P/U)
- (7) OTHER (E.G. CLEVIS-AND-PIN)

- (8) EQUIPPED, TYPE UNKNOWN
- (9) UNKNOWN IF EQUIPPED

3
52

TRAILER TYPE
(AT TIME OF COLLISION)

- (0) NO TRAILER
- (1) TRAVEL-TRAILER/CAMPER
- (2) MOBILE HOME
- (3) BOAT/SNOWMOBILE/ATV TRAILER
- (4) UTILITY TRAILER
- (5) TOWED CAR
- (7) OTHER: _____
- (8) TRAILER, TYPE UNKNOWN
- (9) UNKNOWN

0
53

RIGHT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

0
 54

RIGHT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO
 (1) YES
 (4) NO SEPARATION, BUT DAMAGED
 (8) NOT APPLICABLE (NOT EQUIPPED)
 (9) UNKNOWN

-A-PILLAR, UPPER

0
 55

LOWER

0
 56

-B-PILLAR, UPPER

0
 57

LOWER

0
 58

-C-PILLAR, UPPER

0
 59

LOWER

0
 60

-D-PILLAR, UPPER

8
 61

LOWER

8
 62

RIGHT DOORS

HOW DID DOORS
OPEN DURING COLLISION?

USE CODES:

(00) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (01) HINGE AREA SEPARATION
 (02) DOOR-LATCH SEPARATION
 (03) LATCH-STRIKER SEPARATION
 (04) STRIKER-PILLAR SEPARATION
 (05) BODY DISTORTION
 (06) COMBINATION OF ABOVE
 (CIRCLE EACH)
 (07) OPENED, REASON UNKNOWN
 (11) VAN RIGHT-REAR DOOR OPENED
 (ANY MECHANISM)

(98) NOT APPLICABLE (NO DOOR)

(99) UNKNOWN

-FRONT

00
 63 64

-REAR

00
 65 66

DOORS JAMMED CLOSED-

USE CODES:

- (0) NO
 (1) YES
 (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

-FRONT

0
 67

-REAR

0
 68

VAN REAR DOOR TYPE

- (0) VAN, NO REAR DOOR
 (1) TRACK (SLIDING) - RIGHT SIDE
 (2) SINGLE-HINGED - RIGHT SIDE
 (3) DOUBLE-HINGED - RIGHT SIDE
 (4) TRACK (SLIDING) - RIGHT & LEFT SIDE
 (5) SINGLE-HINGED - RIGHT & LEFT SIDE
 (6) DOUBLE-HINGED - RIGHT & LEFT SIDE
 (7) TRACK AND HINGED COMBINATION
 (8) NOT APPLICABLE (NOT A VAN)
 (9) UNKNOWN

8
 69

WINDSHIELD DAMAGE

WINDSHIELD CRACKED

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

WINDSHIELD BROKEN
(PLASTIC INTERLAYER TORN)

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

CRACKED OR BROKEN
BY OCCUPANT CONTACT

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

EXTENT OF BOND SEPARATION

- (0) NONE
 (1) 1 - 20%
 (2) 21 - 40
 (3) 41 - 60
 (4) 61 - 80
 (5) 81 - 99
 (6) TOTAL
 (7) SEPARATED, AMOUNT
 UNKNOWN
 (8) NOT APPLICABLE
 (9) UNKNOWN

 $\frac{1}{70}$
 $\frac{0}{71}$
 $\frac{0}{72}$
 $\frac{0}{73}$

WINDSHIELD MARK ON CASE VEHICLE:

WINDSHIELD MARK ON CASE VEHICLE:

Unknown

WINDSHIELD CODE

- (97) DESCRIBED BUT NOT CODED
 (98) NOT APPLICABLE (NO WINDSHIELD)
 (99) UNKNOWN

 $\frac{99}{74 \ 75}$

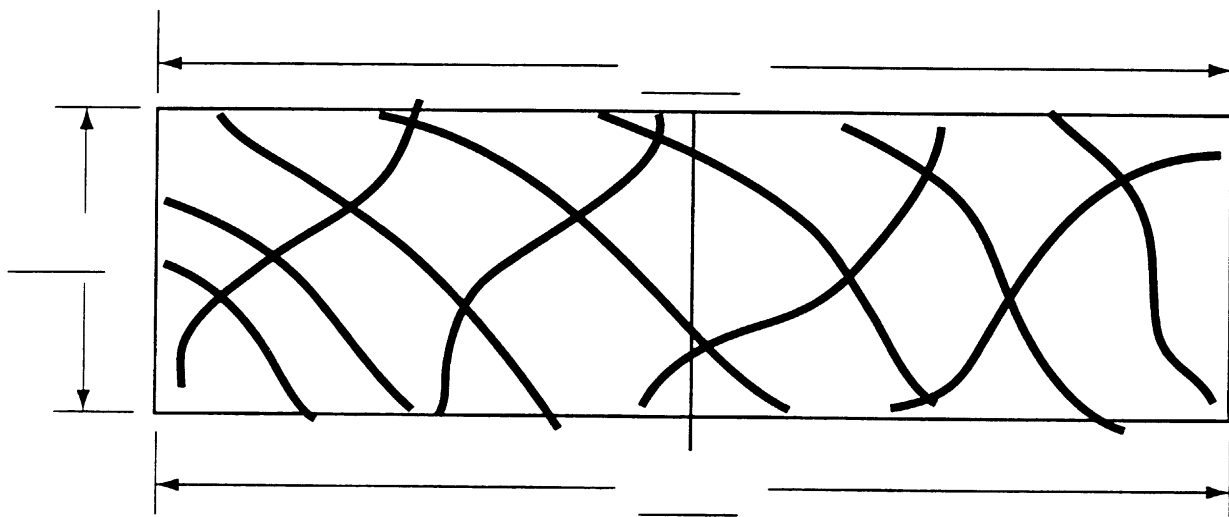
Roof

DID T-ROOF/SUN ROOF OPEN
DURING COLLISION?

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (NOT A T-ROOF OR SUN ROOF)
 (9) UNKNOWN

 $\frac{8}{76}$

LOCATE AREA OF WINDSHIELD INTEREST OR DAMAGE WITH DIMENSIONS (VERTICAL & HORIZONTAL) ON THIS DIAGRAM OF THE WINDSHIELD AS VIEWED FROM INSIDE.



STEERING WHEEL

STEERING WHEEL RIM DAMAGE

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

bottom
42

NUMBER OF STEERING WHEEL SPOKES

- (9) UNKNOWN

STEERING WHL SPOKE DAMAGE

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

SHEAR CAPSULES TOTALLY
SEPARATED

STEERING COLUMN OPTIONS

TILT FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED, UNK POSITION
- (2) UP
- (3) MIDDLE
- (4) LOWER
- (9) UNKNOWN IF EQUIPPED

SWING-AWAY FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED
- (9) UNKNOWN IF EQUIPPED

TELESCOPING FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED
- (9) UNKNOWN IF EQUIPPED

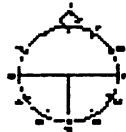
STEERING WHEEL POSITION AT TIME OF COLLISION

IN WHAT O'CLOCK POSITION WAS THE
NORMAL TOP OF THE WHEEL POINTED
WHEN THE COLLISION OCCURRED?

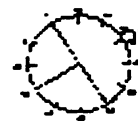
EXAMPLES

O'CLOCK = 12

O'CLOCK = 02



(NORMAL STRAIGHT
AHEAD)



O'CLOCK = 99

(99) UNKNOWN

STEERING WHEEL ENERGY ABSORBING DEVICE



(1) EXAMPLES:

BARRACUDA, 70 - 74
CHALLENGER, 70 - 74
CAPRI, 71 - 77



(2) EXAMPLES:

OMNI, 78 -
HORIZON, 78 -

TYPE OF DEVICE

- (0) NONE
- (1) CONVOLUTED OR MESH CYLINDER
- (2) DEEP DISH STEERING WHEEL
- (7) OTHER: _____
- (8) NOT COLLECTED
- (9) UNKNOWN IF EQUIPPED

ORIGINAL DIMENSION (mm)

A: _____

DAMAGE DIMENSION (mm)

B: _____

DIFFERENCE (mm)

A - B

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT
COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO MEASURE
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

8 8 8
20 22

STEERING COLUMN ENERGY ABSORBING DEVICE

TYPE OF DEVICE * (IF 27 OR 28)

- (00) NOT EQUIPPED
- (88) NOT COLLECTED
- (99) UNKNOWN

ORIGINAL LENGTH (mm)

C: _____

COMPRESSED LENGTH (mm)

D: _____

BRACKET DEFLECTION (IF CODE 36, 48,
OR 49 ABOVE)

OR

COMPRESSION (OR EXTRUSION) (mm)

C - D (OR E) (TOLERANCE: ± 10)

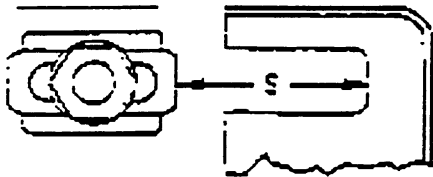
- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT
COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

* (ADD A & B FOR TOTAL COMPRESSION)

SHEAR CAPSULE SEPARATION (mm)

S (USE AVG. OF LEFT & RIGHT CAPSULES.)

LT:



RT:

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT
SEPARATION
- (992) SEPARATED, AMOUNT UNKNOWN
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

COLUMN VERTICAL ROTATION

- (0) NO APPARENT ROTATION
- (1) UPWARD APPARENT ROTATION
- (2) DOWNWARD APPARENT ROTATION
- (9) UNKNOWN

COLUMN LATERAL ROTATION

- (0) NO APPARENT ROTATION
- (1) LEFT APPARENT ROTATION
- (2) RIGHT APPARENT ROTATION
- (9) UNKNOWN

STEERING WHEEL (CONTINUED)

STEERING WHEEL HUB DAMAGE

- (0) NONE
- (1) OCCUPANT CONTACT
- (2) AIRBAG
- (3) OTHER _____
- (9) UNKNOWN

33

8	8
23	24

8	8	8
25	27	

8	8	8
28	30	

2
31

1
32

Broken

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1 = Definitely 2 = Probably 3 = Possible

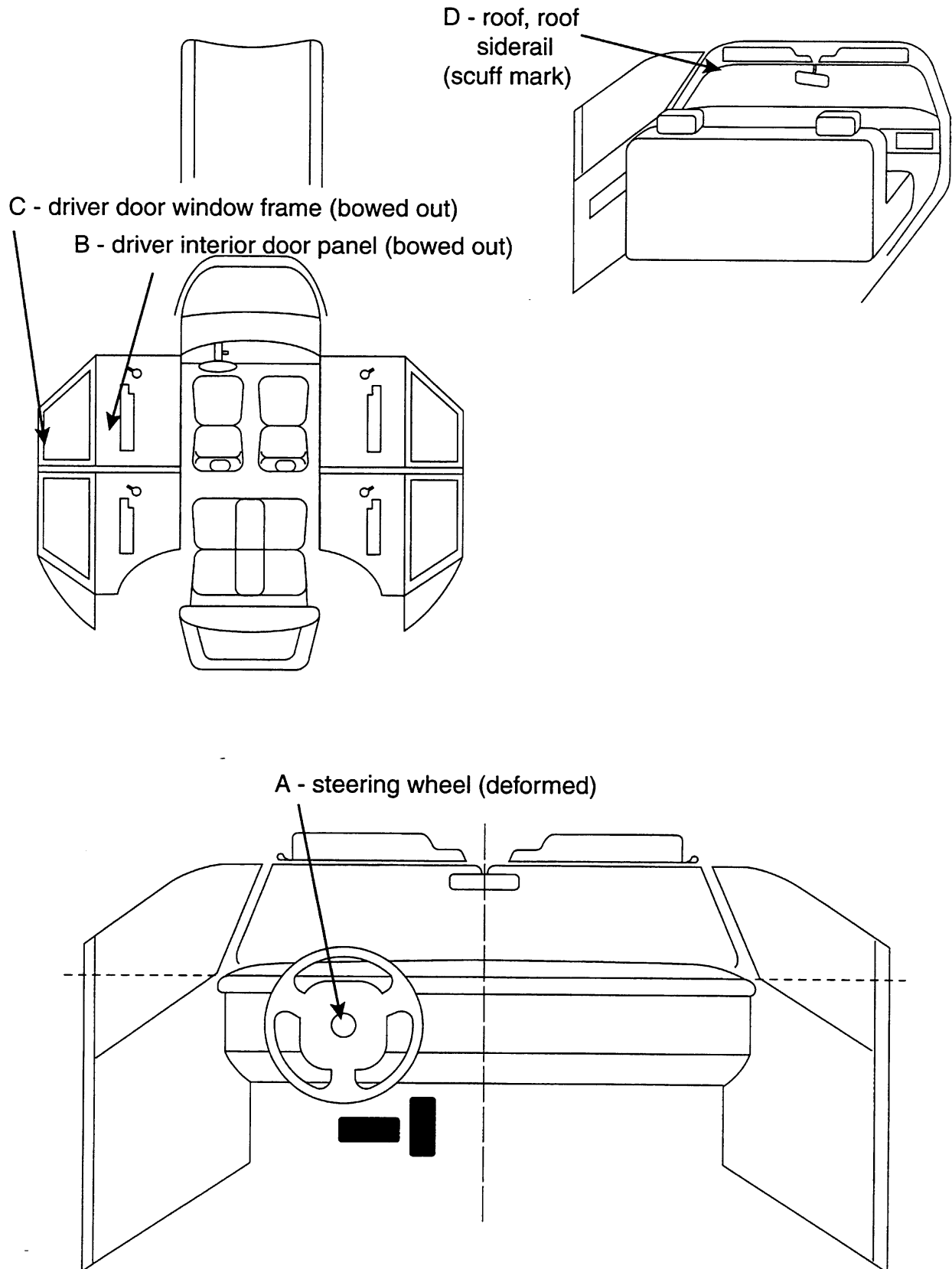
INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)				Dominant Crush Direction
		Comparison Value	–	Intruded Value	= Intrusion	
11	toe pan	71	–	46	= 25	to rear
11	floor		–		= 10	up
13	toe pan	71	–	37	= 34	to rear
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	steering wheel	1	chest	deformed	2
B	driver door panel	1	body	bowed out	1
C	driver door window frame	1	body	bowed out	1
D	roof, roof siderail	1	head	scuffmark	2
E					
F					

VEHICLE OCCUPANT CONTACT DIAGRAM



CODES FOR COLUMN B, OCCUPANT SPACE NUMBER

OCCUPANT SPACE NUMBER IS A TWO-DIGIT CODE. THE USE OF THE CODE IS DETERMINED BY THE VEHICLE SEAT CONFIGURATION AT THE TIME OF THE ACCIDENT.

FIRST DIGIT

THE FIRST DIGIT (LEFT DIGIT) DENOTES THE SEAT ROW, WITH CODE VALUES FROM 1 TO 5.

SECOND DIGIT

THE SECOND DIGIT (RIGHT DIGIT) DENOTES THE POSITION ON THE SEAT AND, IN SOME INSTANCES, THE WIDTH OF THE SEAT.

- | | | | |
|--------------------------|------------------|-------------------------|---|
| (1) LEFT | (3) RIGHT | | INDIVIDUAL SEAT |
| (1) LEFT | (2) CENTER | (3) RIGHT | BENCH: FULL WIDTH 3 PASSENGER |
| (1) LEFT | (2) LEFT CENTER | (6) RIGHT CENTER | (3) RIGHT BENCH: FULL WIDTH 4 PASSENGER |
| (1) LEFT | (2) CENTER | (5) RIGHT & AISLE SPACE | BENCH: PARTIAL WIDTH, LEFT |
| (0) LEFT & SPACE | (2) CENTER | (5) RIGHT & SPACE | BENCH: PARTIAL WIDTH, CENTERED |
| (4) ENTIRE VEHICLE WIDTH | CARGO AREA | | |

EXAMPLES

THE TWO FIGURES BELOW PROVIDE EXAMPLES OF THE OCCUPANT SPACE NUMBER.

PASSENGER CAR
5 PASSENGERS

X	X	11	13
X	X	X	21 22 23

VAN
12 PASSENGER CAPACITY

X	X	11	13
X	X	X	21 22 25
X	X	X	31 32 35
X	X	X	X 41 42 46 43

CODES FOR COLUMN F, MEASUREMENT AXIS

- (X) X-AXIS (FORE & AFT)
(Y) Y-AXIS (LATERAL)
(Z) Z-AXIS (VERTICAL)

CODES FOR COLUMNS G, H, I & J, OCCUPANT & INJURY NUMBERS

OCCUPANT NUMBER	INJURY NUMBER	CONTACT
(00)	(00)	NO CONTACT
(##)	(00)	CONTACT, NO INJURY
(97)	(99)	CONTACT, OCCUPANT UNKNOWN, INJURY UNKNOWN
(99)	(00) OR (99)	UNKNOWN IF CONTACT

CODES FOR COLUMN C, INTRUDING COMPONENT OR OBJECT

NOTE: DO NOT CODE OBJECTS OTHER THAN COMPONENTS OF CASE VEHICLE.

INDIVIDUAL COMPONENT

INTERNAL

- (01) INSTRUMENT PANEL
- (02) FIRE WALL
- (03) TOE PAN
- (04) FLOOR PAN
- (05) STEERING COLUMN
- (06) WINDSHIELD
- (07) WINDSHIELD HEADER
- (08) A-PILLAR
- (09) DOOR PANEL OR SIDE PANEL
- (10) WINDOW FRAME
- (11) B-PILLAR
- (12) C-PILLAR
- (13) D-PILLAR
- (14) ROOF SIDE RAILS
- (15) ROOF OR CONVERTIBLE TOP
- (16) BACKLIGHT HEADER
- (17) FRONT SEAT-BACK SURFACE/
SEAT-BACK BACK SURFACE
- (18) SECOND SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (19) THIRD SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (20) FOURTH SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (21) FIFTH SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (22) BACK PANEL/BACK DOOR SURFACE
- (23) SEAT CUSHION SURFACE/EDGE
- (24) CONSOLE
- (25) OTHER (DESCRIBE)
- (26) UNKNOWN INTERNAL SURFACES
- (28) TRANSMISSION TUNNEL (HUMP)
- (29) SIDE FOOTWELL PANEL (KICKPANEL)
- (30) SILL

EXTERNAL

- (43) HOOD
- (44) OBJECT EXTERNAL TO PASSENGER
COMPARTMENT BUT PART
OF CASE VEHICLE
- (45) OUTSIDE SURFACE OF CASE VEHICLE
- (46) OTHER (E.G. SPARE TIRE,
JACK. DESCRIBE.)
- (49) UNKNOWN EXTERNAL OBJECT

GROUPED FOR MASSIVE INTRUSION INTO AN OCCUPANT SPACE

USE ONLY IF ALL THESE COMPONENTS
INTRUDED INTO A SINGLE OCCUPANT SPACE.

- | | |
|--|--|
| (50) WINDSHIELD HEADER
A-PILLAR
ROOF SIDE RAIL | (60) ROOF
ROOF RAIL
A-PILLAR
B-PILLAR
C-PILLAR
WINDOW FRAME
DOOR PANEL
FLOOR PAN |
| (51) INSTRUMENT PANEL
A-PILLAR
DOOR PANEL | (61) INSTRUMENT PANEL
TOE PAN
WINDSHIELD HEADER
A-PILLAR
ROOF RAIL
WINDOW FRAME
DOOR PANEL
ROOF |
| (52) INSTRUMENT PANEL
A-PILLAR
WINDSHIELD HEADER | (62) ROOF
ROOF RAIL
C-PILLAR
WINDOW FRAME
FLOOR PAN
SECOND SEAT
DOOR PANEL |
| (53) DOOR PANEL
B-PILLAR
ROOF RAIL | (63) ROOF RAIL
ROOF
B-PILLAR
WINDOW FRAME
FLOOR PAN
DOOR PANEL
SECOND SEAT
FRONT SEAT |
| (54) DOOR PANEL
A-PILLAR
ROOF RAIL | (64) ROOF RAIL
ROOF OR CONVERTIBLE TOP
A-PILLAR
B-PILLAR
WINDOW FRAME
WINDOW HEADER |
| (55) INSTRUMENT PANEL
FLOOR PAN
A-PILLAR
DOOR FRAME | (65) WINDSHIELD
WINDSHIELD HEADER
ROOF SIDE RAIL |
| (56) ROOF RAIL
A-PILLAR
B-PILLAR
WINDOW FRAME | (66) WINDSHIELD
WINDSHIELD HEADER
A-PILLAR |
| (57) ROOF RAIL
A-PILLAR
B-PILLAR
C-PILLAR
DOOR PANEL | (98) NOT APPLICABLE |
| (58) ROOF
ROOF RAIL
WINDOW FRAME
DOOR PANEL | (99) UNKNOWN |
| (59) BACKLIGHT HEADER
ROOF
C-PILLAR
THIRD SEAT-BACK | |

Duplicate columns 1-8
from the previous card.

Module I T Format 0 1
9 10 11 12

INTRUSION IT-5

WAS THERE OCCUPANT COMPARTMENT INTRUSION? 1

13

WAS INTRUSION CATASTROPHIC? 0

14

- (0) NO DO NOT ANSWER NEXT QUESTION. SKIP PAGE.
(1) YES ANSWER NEXT QUESTION.
(9) UNKNOWN SKIP PAGE.

- (0) NO COMPLETE PAGE.
(1) YES SKIP PAGE.

Duplicate columns 1-8
from the previous card.

Module I T Format 0 2
9 10 11 12

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.
CODES FOR B, F, G, H, I, J ON PAGE IT-3
CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 1</u>	<u>11</u>	<u>03</u>	<u>1</u>	<u>25</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 2</u>	<u>11</u>	<u>04</u>	<u>1</u>	<u>00</u>	<u>00</u>	<u>10</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 3</u>	<u>13</u>	<u>03</u>	<u>1</u>	<u>34</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 4</u>	---	---	---	---	---	---	---	---	---	---
<u>0 5</u>	---	---	---	---	---	---	---	---	---	---
<u>0 6</u>	---	---	---	---	---	---	---	---	---	---
<u>0 7</u>	---	---	---	---	---	---	---	---	---	---

NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.

Duplicate columns 1-8
from the previous card.

Module I T Format 0 3
9 10 11 12

NOTE: IF NO SIDE DOOR INTRUSION,
SKIP REMAINDER OF PAGE.

SIDE DOOR INTRUSION
RESULTED FROM

INTRUSION
NUMBER CAUSE

CODES
FOR CAUSE:

13 15 (1) DIRECT
IMPACT
16 18 (2) INDUCED
DAMAGE
19 21 (9) UNKNOWN

IF DAMAGE TO DOOR COMPONENT RESULTED IN INCREASED
DOOR INTRUSION, CODE COMPONENT

INTRUSION
NUMBER

DAMAGED
COMPONENT 1

DAMAGED
COMPONENT 2

CODES
FOR COMPONENTS

A 22 23

25

B 26 27

29

C 30 31

33

D 34 35

37

- (0) NONE
(1) A-PILLAR
(2) B-PILLAR
(3) C-PILLAR
(4) LATCH/STRIKER
(5) HINGES
(7) OTHER: _____
(8) NOT APPLICABLE
(9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module I T Format 0 2
9 10 11 12

INTRUSION IT-6

NOTE: Each line in the table below is a separate record (card).
Duplicate columns 1 - 12 for each completed line.

-- ADDITIONAL PAGE --

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.
CODES FOR B, F, G, H, I, J ON PAGE IT-3
CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 8</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 9</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 0</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 6</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 7</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 8</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 9</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 0</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —

Duplicate columns 1-8
from the previous card.

Module 1 D Format 0 1
9 10 11 12

INTERIOR DAMAGE

ID-1

CODES:

- (0) NO
(1) YES
(3) NO, and OCCUPANT CONTACT

- (4) YES, and OCCUPANT CONTACT
(8) NOT APPLICABLE
(9) UNKNOWN

	LEFT	RIGHT				
SIDES			FRONT		INSTRUMENT PANEL	
FRONT DOOR	<u>4</u> 13	<u>0</u> 14	FOOT CONTROLS	<u>0</u> 45	UPPER PANEL	<u>1</u> 55
FRONT HARDWARE	<u>1</u> 15	<u>0</u> 16	IGNITION KEYS	<u>0</u> 46	MID PANEL	<u>1</u> 56
FRONT ARMREST	<u>1</u> 17	<u>0</u> 18	REAR VIEW MIRROR	<u>0</u> 47	LOWER PANEL	<u>1</u> 57
FRONT GLASS	<u>1</u> 19	<u>0</u> 20	SUNVISOR/FITTINGS	<u>0</u> 48	ASHTRAY	<u>0</u> 58
REAR DOOR AREA	<u>0</u> 21	<u>0</u> 22	(5) LEFT SIDE ONLY (6) RIGHT SIDE ONLY (7) BOTH SIDES		CONTROL KNOBS & LEVERS	<u>1</u> 59
REAR HARDWARE	<u>0</u> 23	<u>0</u> 24	WINDSHIELD TOP MOLDINGS	<u>0</u> 49	GLOVE COMPARTMENT AREA	<u>0</u> 60
REAR ARMREST	<u>0</u> 25	<u>0</u> 26	LEFT A-PILLAR (UPPER OR LOWER)	<u>0</u> 50	INSTRUMENTS	<u>0</u> 61
REAR GLASS	<u>0</u> 27	<u>0</u> 28	RIGHT A-PILLAR (UPPER OR LOWER)	<u>0</u> 51	PARKING BRAKE RELEASE	<u>0</u> 62
ROOF SIDE RAIL	<u>0</u> 29	<u>0</u> 30	CENTER CONSOLE	<u>1</u> 52	PARKING BRAKE PEDAL	<u>0</u> 63
B-PILLAR	<u>0</u> 31	<u>0</u> 32	TRANSMISSION SELECTOR LEVER	<u>0</u> 53	A/C OR UPPER VENT OUTLETS	<u>0</u> 64
C-PILLAR	<u>0</u> 33	<u>0</u> 34	RIM, HORN, SPOKE	<u>0</u> 54	HEATER OR A/C DUCTS	<u>0</u> 65
D-PILLAR	<u>0</u> 35	<u>0</u> 36			RADIO	<u>0</u> 66
HEADLINING	<u>0</u> 37	<u>0</u> 38			OTHER: * _____	<u>0</u> 67
ROOF STRUCTURE	<u>0</u> 39	<u>0</u> 40				
T-ROOF/SUN ROOF	<u>0</u> 41	<u>0</u> 42				
OTHER: * _____	<u>0</u> 43	<u>0</u> 44				
					REAR	
					WINDOW	<u>0</u> 68
					WINDOW HEADER	<u>0</u> 69
					CONSOLES	
					VERTICAL	<u>1</u> 70
					ROOF	<u>0</u> 71

* MORE THAN ONE ITEM MAY BE NOTED.

Duplicate columns 1-8
from the previous card.

Module S T Format 0 2
9 10 11 12

SEATS

ST-1

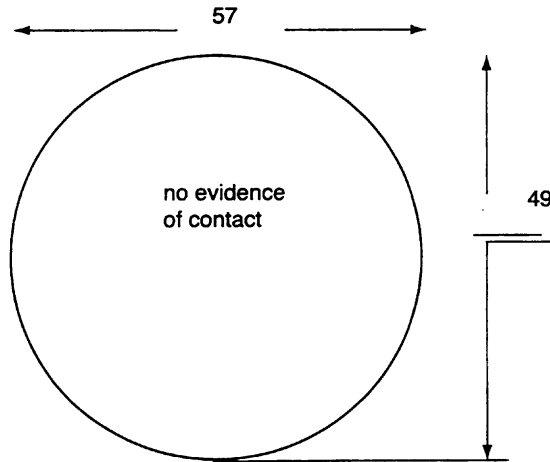
FRONT SEAT		DRIVER	PASSENR	FRONT SEAT-BACK		DRIVER	PASSENR
TYPE OF FRONT SEAT (00) NO SEAT (01) STANDARD BENCH (02) SPLIT BACK, 50-50 (03) SPLIT BACK, DRIVER WIDE (04) SPLIT BACK, PASS. WIDE (05) BUCKET (06) CAPTAIN'S CHAIR (07) INDIV. BENCH, 50-50 (08) INDIV. BENCH, DRIVER WIDE (09) INDIV. BENCH, PASS. WIDE (97) OTHER: _____ (99) UNKNOWN		<u>05</u> 13 14	<u>05</u> 15 16	SEAT-BACK TYPE (1) FORWARD FOLDING (2) RIGID (3) RECLINING (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 30	<u>1</u> 31
TYPE OF SEAT MOUNT (1) STANDARD (2) PEDESTAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 17	<u>1</u> 18	SEAT-BACK LOCK TYPE (0) NONE (1) MANUAL (2) INERTIA (3) POWER (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 32	<u>1</u> 33
SWIVEL MECHANISM EQUIPPED (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 19	<u>0</u> 20	LOCKS HELD (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 34	<u>1</u> 35
ORIGINAL EQUIPMENT SEATS (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 21	<u>1</u> 22	RECLINER MECHANISM HELD (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 36	<u>1</u> 37
CONTACT OF SEAT BY REAR OCCUPANT (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>8</u> 23	<u>8</u> 24	HEAD RESTRAINT HEAD RESTRAINT TYPE (0) NONE (1) ADJUSTABLE (2) INTEGRAL (3) NOT INTEGRAL, BUT CANNOT BE REMOVED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>2</u> 38	<u>2</u> 39
FRONT SEAT DAMAGE (0) NONE (1) BACKREST ONLY DAMAGED (2) CUSHION ONLY DAMAGED (3) BACKREST & CUSHION DAMAGED (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 25	<u>0</u> 26	REMOVED PRE-CRASH (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>8</u> 40	<u>8</u> 41
CENTER ARMREST DAMAGED (0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED		<u>0</u> 27		ADJUSTMENT AT CRASH (1) UP (2) DOWN (8) NOT APPLICABLE (9) UNKNOWN		<u>8</u> 42	<u>8</u> 43
FRONT SEAT ROTATION (0) NONE APPARENT (1) FORWARD APPARENT (2) REARWARD APPARENT (3) LEFT APPARENT (4) RIGHT APPARENT (5) MULTIPLE ROTATIONS SPECIFY _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 28	<u>1</u> 29	HEAD RESTRAINT DAMAGE (0) NONE (1) DAMAGED BUT NOT SEPARATED (2) SEPARATED (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 44	<u>0</u> 45

FRONT SEAT ADJUSTMENT		DRIVER	PASSENGER	SECOND SEAT (CONT.)	
SEAT ADJUSTMENT TYPE				CENTER ARMREST DAMAGED	
(0) NONE (RIGID) (1) MANUAL (2) POWER (7) OTHER: _____ (8) NOT APPLICABLE (NO SEAT) (9) UNKNOWN		<u>1</u> 46	<u>1</u> 47	(0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED	
ADJUSTMENT PROVIDED		<u>1</u> 48	<u>1</u> 49		
(1) 2-WAY (2) 4-WAY (3) 6-WAY (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN					
SEAT ADJUSTER DAMAGE				SECOND SEAT-BACK	
(0) NONE (1) CHUCKING (FREE PLAY) (2) DEFORMED (RELEASED/JAMMED) (3) SEPARATED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>2</u> 50	<u>0</u> 51	LOCKS	
SEAT ADJUSTER SEPARATION				FOR THE FOLLOWING, USE:	
(0) NONE (1) SEPARATED AT FLOOR (2) SEPARATION OF ADJUSTER (3) SEPARATED AT SEAT (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 52	<u>8</u> 53	(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	
PRE-CRASH POSITION				LEFT OR CENTER, EQUIPPED	
(1) FORWARD (2) MIDDLE (3) REARWARD (8) NOT APPLICABLE (9) UNKNOWN		<u>9</u> 54	<u>9</u> 55	LEFT OR CENTER, HELD (3) SEAT FOLDED DOWN RIGHT, EQUIPPED RIGHT, HELD (3) SEAT FOLDED DOWN	
SECOND SEAT		LEFT	RIGHT	THIRD SEAT	
TYPE OF SECOND SEAT				EQUIPPED	
(0) NONE (1) NON-FOLDING (2) FOLDING (3) CAPTAIN'S CHAIR (4) JUMP SEAT (5) INTEGRAL CHILD SEAT (6) LUGGAGE AREA ACCESS PANEL (9) UNKNOWN		<u>1</u> 56	<u>1</u> 57	BACKREST DAMAGED CUSHION DAMAGED	
SECOND SEAT DAMAGE					
(0) NONE (1) BACKREST ONLY (DAMAGED OR LOOSENED) (2) CUSHION ONLY (DAMAGED OR LOOSENED) (3) BACKREST & CUSHION (DAMAGED OR LOOSENED) (4) INTEGRAL CHILD SEAT (PRIORITY CODE) (5) LUGGAGE AREA ACCESS PANEL (DAMAGED OR LOOSENED) (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 58	<u>0</u> 59	VEHICLE EQUIPPED WITH REAR HEAD RESTRAINTS	
				(0) NOT EQUIPPED (OR REMOVED) (1) EQUIPPED (2) EQUIPPED & DAMAGED (8) NOT APPLICABLE (NO REAR SEAT) (9) UNKNOWN Applies to any rear-seat position	

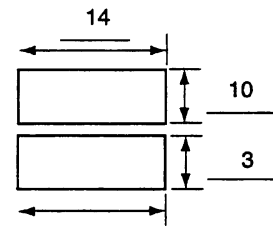
<p>DRIVER SIDE</p> <p>LOCATION OF AIRBAG</p> <p>STEERING WHEEL</p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 13</p> <p><u>1</u> 14</p>	<p>PASSENGER SIDE</p> <p>LOCATION OF AIRBAG</p> <p>INSTRUMENT PANEL (GLOVE BOX)</p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 16</p> <p><u>1</u> 17</p>
<p>CONDITION OF AIRBAG</p> <p>STEERING WHEEL</p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>0</u> 15</p>	<p>CONDITION OF AIRBAG</p> <p>INSTRUMENT PANEL (GLOVE BOX)</p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>0</u> 18</p>
<p>DRIVER SIDE</p> <p>AIRBAG</p> <p>STEERING WHEEL</p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 19</p> <p><u>0</u> 20</p>	<p>PASSENGER SIDE</p> <p>AIRBAG</p> <p>INSTRUMENT PANEL (GLOVE BOX)</p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>0</u> 21</p> <p><u>0</u> 22</p>

AIRBAG NUMBER ON DRIVER SIDE:

NOTE AND DESCRIBE ANY AIRBAG CONTACT OR
DAMAGE ON DIAGRAM BELOW:



Driver Airbag Doors



H-Pattern

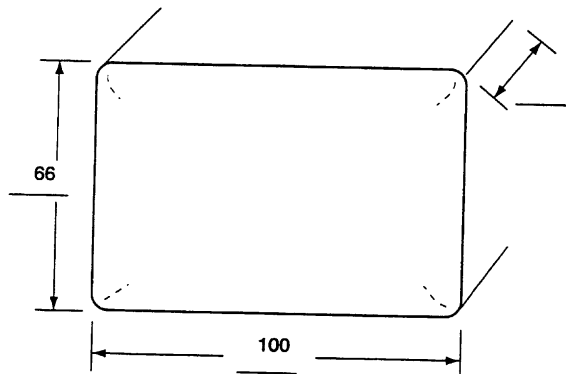
Vents: Y ☒ N
if yes, how many: _____

Tethers: ☒ Y N 1
if yes, how many: _____

AIRBAG NUMBER ON PASSENGER SIDE:

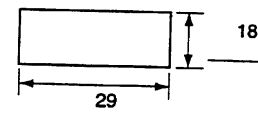
NOTE AND DESCRIBE ANY AIRBAG CONTACT OR
DAMAGE ON DIAGRAM BELOW:

Passenger Airbag



Passenger Airbag Doors

Single Door



Vents: Y ☒ N
if yes, how many: _____

Tethers: Y ☒ N
if yes, how many: _____

NOTE TO THE INVESTIGATOR:

THE FOLLOWING TWO SECTIONS,
OCCUPANT INFORMATION AND INJURY CLASSIFICATION,
ARE TO BE FILLED IN
FOR EACH CASE VEHICLE OCCUPANT,
WHETHER INJURED OR NOT.

IF THERE IS MORE THAN ONE OCCUPANT,
USE ADDITIONAL COPIES
OF PAGES OC-1, OC-2, OC-3,
AND IC-2 TO DESCRIBE THEM
AND ATTACH THE COPIES TO THIS REPORT.

Duplicate columns 1-8
from the previous card.

Module 0 C Format 0 2
9 10 11 12

OCCUPANT INFORMATION OC-1

OCCUPANT IDENTIFICATION

OCCUPANT NUMBER

01
13 14

ROLE OF OCCUPANT AT 1ST IMPACT

- (1) MOTOR VEHICLE DRIVER
- (2) MOTOR VEHICLE PASSENGER
(NOT DRIVER)
- (9) UNKNOWN

1
15

OCCUPANT POSITION

ROW LOCATION

- (1) FRONT
- (2) SECOND
- (3) THIRD
- (4) FOURTH
- (7) OTHER: _____
- (8) EXTERNAL TO PASSENGER
COMPARTMENT (E.G. BED OF PICKUP)
- (9) UNKNOWN

1
16

LATERAL LOCATION

- (1) LEFT
- (2) LEFT CENTER
- (3) CENTER
- (4) RIGHT CENTER
- (5) RIGHT
- (6) ALL (LYING ON SEAT)
- (8) EXTERNAL TO PASSENGER
COMPARTMENT
- (9) UNKNOWN

1
17

POSTURE

- (10) SITTING ON SEAT
- (11) SITTING ON SEAT IN ABNORMAL
POSITION (E.G. FEET ON DASH,
SIDEWAYS)
- (12) SITTING ON CONSOLE
- (20) ON LAP OR IN ARMS
- (30) STANDING ON SEAT
- (40) STANDING ON FLOOR
- (47) STANDING, EXTERNAL TO
PASSENGER COMPARTMENT
- (50) IN BASSINET
- (60) IN CHILD SEAT
- (65) IN CHILD HARNESS
- (70) LYING ON SEAT
- (80) LYING/SITTING ON PASSENGER
FLOOR
- (83) LYING/SITTING ON OTHER
OBJECT IN PASSENGER
COMPARTMENT: _____
- (85) ON CARGO FLOOR/FOLDED
SEAT-BACK
- (87) LYING/SITTING, EXTERNAL TO
PASSENGER COMPARTMENT
- (97) OTHER: _____
- (99) UNKNOWN

10
18 19

PHYSICAL DESCRIPTION

AGE IN YEARS

- (00) LESS THAN 1 YEAR
- (98) 98 YEARS OR OLDER
- (99) UNKNOWN

33
20 21

AGE IN MONTHS

- (00) LESS THAN 1 MONTH
- (25) 25 MONTHS OR OLDER
- (99) UNKNOWN

25
22 23

MASS (kg)

- (999) UNKNOWN

265

120
24 25 26

HEIGHT (cm)

- (999) UNKNOWN

6' 11"

185
27 28 29

SEX

- (1) MALE
- (2) FEMALE
- (9) UNKNOWN

1
30

MEDICAL CONDITIONS

TREATMENT/MORTALITY

- (00) NONE
- (01) FIRST AID AT SCENE
- (02) TREATED AT HOSPITAL/CLINIC
BUT NOT ADMITTED
- (03) HOSPITALIZED FOR OBSERVATION
LESS THAN 24 HOURS
- (04) HOSPITALIZED OVER 24 HOURS
OR FOR SIGNIFICANT TREATMENT
- (05) FATAL, DEAD AT SCENE
- (06) FATAL, DOA
- (07) FATAL, DEAD WITHIN 24 HOURS
- (08) FATAL, DEAD 24 HOURS TO
31 DAYS LATER
- (09) FATAL, DEAD 31 DAYS TO
1 YEAR LATER
- (10) FATAL DEAD WITHIN UNKNOWN
PERIOD
- (99) UNKNOWN

04
31 32

INJURY SEVERITY SCORE (ISS)

- (99) UNKNOWN

10
33 34

NON-IMPACT MED. CONDITIONS

- (0) NONE
- (1) YES, TIME & TYPE UNKNOWN
- (2) PRE-CRASH FATAL (CLINICAL
DEATH AT WHEEL)
- (3) PRE-CRASH NON-FATAL (E.G.
PRIOR INJURY, STROKE)
- (4) PREGNANT
- (5) POST-CRASH FATAL (DROWNING)
- (6) POST-CRASH NON-FATAL INJURY
- (7) OTHER: _____
- (8) COMBINATION OF ABOVE
(CIRCLE EACH)
- (9) UNKNOWN

0
35

OCCUPANT INFORMATION OC-2

MEDICAL CONDITIONS (CONT.)

POLICE INJURY SEVERITY CODE FOR THIS OCCUPANT

- (0) O - NO INJURY
- (1) C - POSSIBLE INJURY
- (2) B - NON-INCAPACITATING
- (3) A - INCAPACITATING INJURY
- (4) K - FATAL
- (5) INJURED, SEVERITY UNKNOWN
- (6) DIED PRIOR TO IMPACT
- (7) NON-FATAL INJURY,
SEVERITY UNKNOWN
- (9) UNKNOWN

3
36

CHILD SEAT TYPE

- (00) NONE USED
- (01) YES, USED
- (02) INTEGRAL, Chrysler Mini-van
- (88) NOT APPLICABLE
(ADULT OR OLDER CHILD)
- (99) UNKNOWN

88
41 42

CHILD SEAT MAKE/MODEL

RESTRAINT SYSTEM

ACTIVE RESTRAINT SYSTEM

- (0) NONE
- (1) LAP BELT
- (2) SHOULDER HARNESS ONLY
- (3) BOTH LAP BELT &
SHOULDER HARNESS
- (9) UNKNOWN

3
37

ACTIVE RESTRAINT SYSTEM USAGE

- (0) NONE (AVAILABLE BUT NOT USED)
- (1) LAP BELT ONLY
- (2) SHOULDER HARNESS ONLY
- (3) BOTH LAP BELT &
SHOULDER HARNESS
- (7) IMPROPER USAGE
- (8) NOT APPLICABLE (NONE AVAILABLE)
- (9) UNKNOWN

0
38

PASSIVE RESTRAINT SYSTEM

- (0) NONE
- (1) AIRBAG INSTALLED
- (2) PASSIVE UPPER TORSO
WITH KNEE BOLSTERS
- (3) PASSIVE UPPER TORSO
WITHOUT KNEE BOLSTERS
- (4) PASSIVE LAP & UPPER TORSO
- (5) AIRBAG INSTALLED &
PASSIVE RESTRAINT
- (7) OTHER: _____
- (9) UNKNOWN

1
39

PASSIVE RESTRAINT SYSTEM USAGE

- (0) SYSTEM DEFEATED
- (1) AIRBAG NOT DEPLOYED
- (2) AIRBAG DEPLOYED
- (3) AIRBAG NOT REINSTALLED
- (4) PASSIVE UPPER TORSO USED
- (5) PASSIVE LAP & UPPER TORSO USED
- (6) SYSTEM USED IN MANUAL MODE
- (7) IMPROPER USAGE
- (8) NOT APPLICABLE (NOT ORIGINALLY
EQUIPPED)
- (9) UNKNOWN

2
40

EJECTION

DEGREE OF EJECTION

- (0) NONE
- (1) PARTIAL
- (2) COMPLETE
- (7) EJECTED, DEGREE UNKNOWN
- (9) UNKNOWN IF EJECTED

2
43

AREA OF EJECTION

- (01) WINDOW, LEFT SIDE
- (02) WINDOW, RIGHT SIDE
- (03) WINDOW, REAR
- (04) DOOR, LEFT SIDE
- (05) DOOR, RIGHT SIDE
- (06) DOOR, REAR OR TAILGATE
- (07) WINDSHIELD
- (08) ROOF OR OPEN CONVERTIBLE OR
FROM EXTERNAL AREA
- (96) EJECTED AREA UNKNOWN
- (97) OTHER AREA: WINDOW FRAME
- (98) NOT APPLICABLE (NOT EJECTED)
- (99) UNKNOWN IF EJECTED

97
44 45

IF OCCUPANT WAS EJECTED, DESCRIBE IN DETAIL BELOW:

BOWED OUT DOOR AND
WINDOW FRAME, LEAVING AN
OPENING

HEAD RESTRAINT

HEAD RESTRAINT AVAILABLE FOR THIS POSITION

- (0) NOT EQUIPPED OR REMOVED
- (1) EQUIPPED
- (9) UNKNOWN

1
46

OCCUPANT INFORMATION OC-3

OCCUPANT EYEWEAR

- (0) NONE
- (1) GLASSES
- (2) CONTACTS
- (3) BOTH GLASSES AND CONTACTS
- (4) OTHER _____
- (8) NOT APPLICABLE
- (9) UNKNOWN

9
47

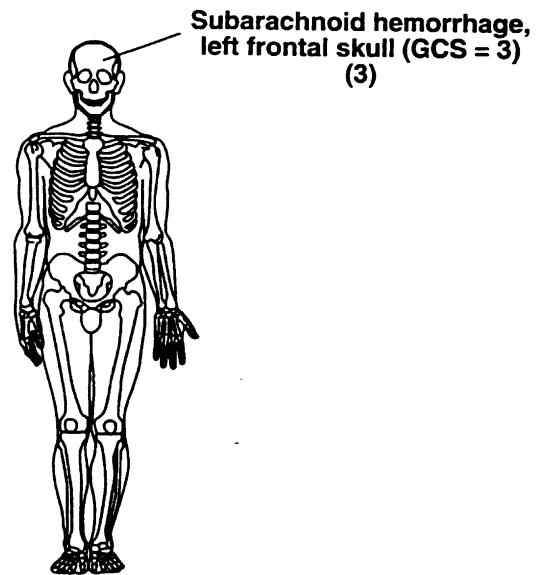
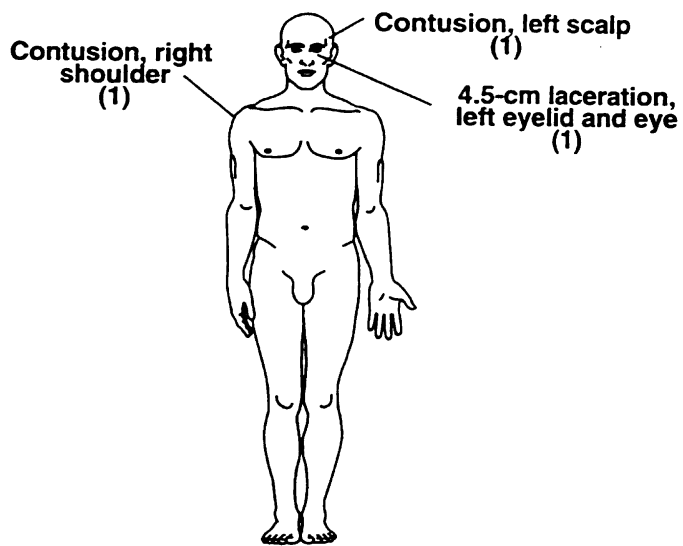
SOURCE OF INFORMATION

- / (0) INTERVIEW
- / (1) HOSPITAL
- (2) AUTOPSY
- (3) POLICE
- (4) OTHER _____
- (5) LAY CORONER/EXTERNAL EXAM
- (7) COMBINATION OF ABOVE (CIRCLE)
- (8) NOT APPLICABLE
- (9) UNKNOWN

7
48

INDICATE LOCATION OF INJURIES.

blood alcohol = .22 percent



INJURY CLASSIFICATION IC-1

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

OCCUPANT INJURY CLASSIFICATION

[illegible]

NOTE: USE ADDITIONAL PAGES IF NECESSARY.

CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) & OR TOP MOLDING
- (12) WINDSHIELD
- (05) INSTRUMENT PANEL (*SPECIFIC AREA UNKNOWN*)
- (54) UPPER INSTRUMENT PANEL (*X*)
- (55) MIDDLE INSTRUMENT PANEL (*Y*)
- (56) LOWER INSTRUMENT PANEL (*Z*)
- (81) ASH TRAY (*INSTRUMENT PANEL*)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (*ACRS*) COMPARTMENT DOOR/COVER
- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (09) STEERING ASSEMBLY (*SPECIFIC AREA UNKNOWN*)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN
- (03) HARDWARE ITEM (*SPECIFIC AREA UNKNOWN*)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (*FRONT*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (*BUILT IN*)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (*LOCATION UNK.*)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (*LOCATION UNKNOWN*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM
- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (*AIRBAG*)
- (47) AIRBAG (*ACRS*) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (*FROM ANY SOURCE*)
- (41) UNKNOWN INTERIOR SURFACE

SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK
- (22) WINDOW GLASS (*SIDE*)
- (21) WINDOW FRAMES (*SIDE*)
- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (91) KICKPANEL

Roof

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) & OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (*SPECIFIC AREA UNKNOWN*)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (*SPECIFIC AREA UNK.*)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (*NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.*)

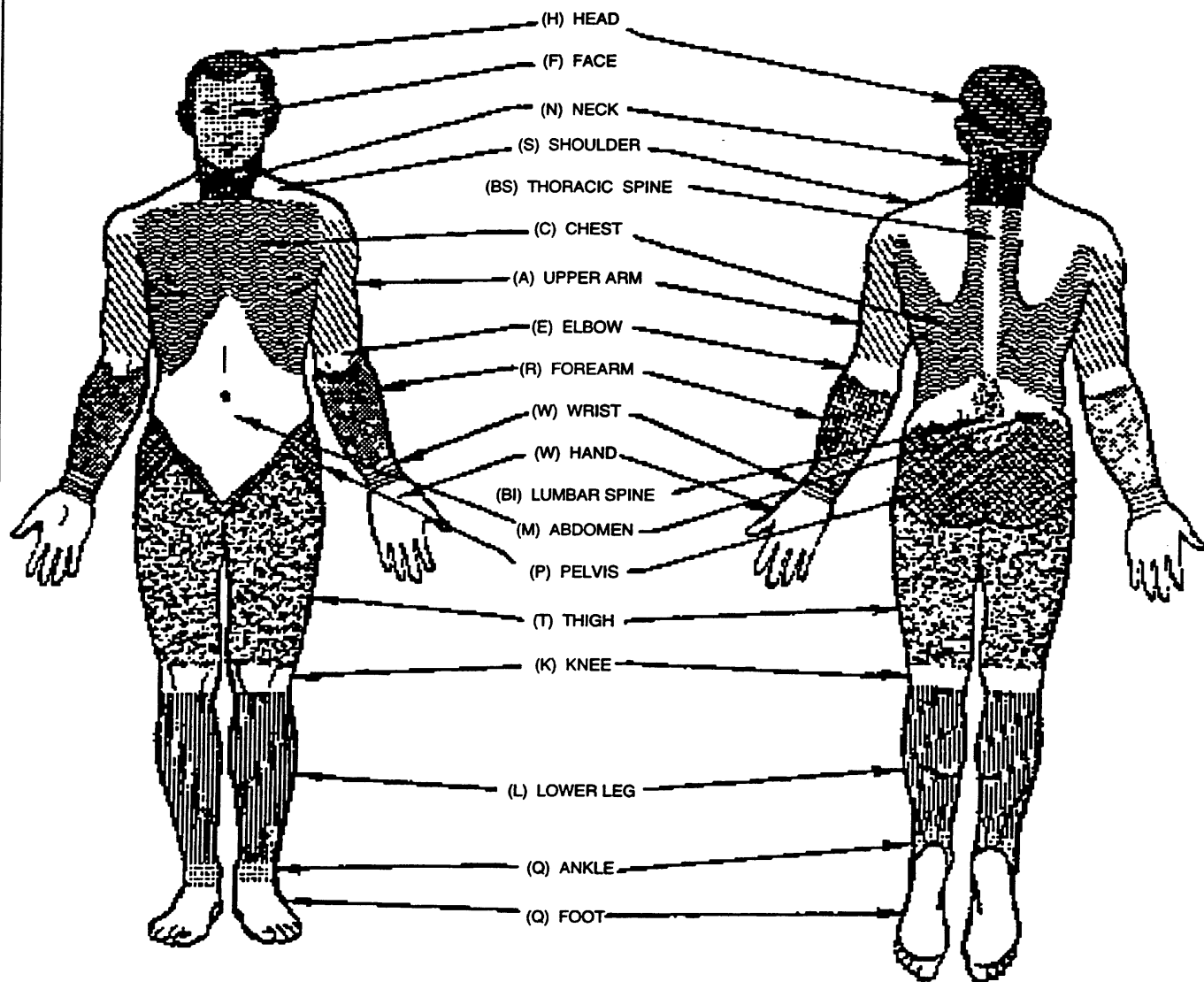
PENETRATING OBJECTS

- (61) OTHER VEHICLE
- (72) OBJECTS (*DESCRIBE*)

MISCELLANEOUS

- (00) NO CONTACT (*INVALID FIELD FORM CODE*)
- (38) OTHER (*E.G. FIRE. DESCRIBE*)
- (90) SPARE TIRE
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT

THE FIGURE BELOW
IS AN EXPLANATION OF THE BODY REGION CODES
LISTED ON PAGE IC - 4.



CODES FOR OCCUPANT INJURY CLASSIFICATION (OIC)

1

BODY REGION

(H) HEAD/SKULL

(F) FACE

(N) NECK

(S) SHOULDER

(X) UPPER EXTREMITIES

(A) ARM (UPPER)

(E) ELBOW

(R) FOREARM

(W) WRIST/HAND

(C) CHEST

(M) ABDOMEN

(B) BACK

(P) PELVIC/HIP

(Y) LOWER EXTREMITIES

(T) THIGH

(K) KNEE

(L) LEG (LOWER)

(Q) ANKLE/FOOT

(O) WHOLE BODY

(U) UNKNOWN

2

ASPECT

(R) RIGHT

(L) LEFT

(B) BILATERAL

(C) CENTRAL

(A) ANTERIOR/FRONT

(P) POSTERIOR/BACK

(S) SUPERIOR/UPPER

(I) INFERIOR/LOWER

(W) WHOLE REGION

(U) UNKNOWN

3

LESION

(L) LACERATION

(C) CONTUSION

(A) ABRASION

(F) FRACTURE

(P) PERFORATION, PUNCTURE

(K) CONCUSSION

(V) AVULSION

(R) RUPTURE

(S) SPRAIN

(D) DISLOCATION

(N) CRUSH

(M) AMPUTATION

(B) BURN

(G) DETACHMENT, SEPARATION

(Z) FRACTURE AND DISLOCATION

(T) STRAIN

(E) TOTAL SEVERANCE, TRANSECTION

(O) OTHER

(U) UNKNOWN

4

SYSTEM/ORGAN

(S) SKELETAL

(V) VERTEBRAE

(J) JOINTS

(D) DIGESTIVE

(L) LIVER

(N) NERVOUS SYSTEM

(B) BRAIN

(C) SPINAL CORD

(E) EARS

(O) EYES

(A) ARTERIES

(H) HEART

(Q) SPLEEN

(G) UROGENITAL

(K) KIDNEYS

(R) RESPIRATORY

(P) PULMONARY/LUNGS

(M) MUSCLES

(T) THYROID, OTHER ENDOCRINE GLAND

(I) INTEGUMENTARY (SKIN)

(W) ALL SYSTEMS IN REGION

(U) UNKNOWN

5

SEVERITY
(OR "AIS", ABBREVIATED INJURY SCALE)

(0) NONE

(1) MINOR

(2) MODERATE

(3) SERIOUS

(4) SEVERE

(5) CRITICAL

(6) MAXIMUM

(9) UNKNOWN

BODY REGION

ASPECT

LESION

SYSTEM/ORGAN

SEVERITY

1

2

3

4

5

Case No.: 22100

Case Veh.: A1: 1999 Dodge

Type: Plain 1999 Quad Cab, 4x2 pickup

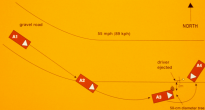
Driver: 55-year-old male

Weather: Cloudy

Road Surface: Dry

Road Construction: None

Light Condition: Dark/Unlighted



PN 22100 #1



PN 22100 #2



PN 22100 #3



PN22100#4



PN 22100 #5



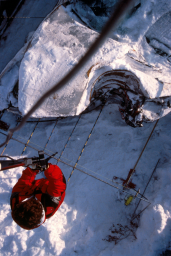
PN 22100 #6



PN 22100 #7



PN 22100 #8
Best Available



PN 22100 #9



PN22100#10
Best Available



PN 22100 #11
Best Available



PN 22100 #12



PN 22100 # 13
Best Available



PN 22100 #14



PN 22100 # 15
Best Available



PN 22100 # 16
Best Available



PN 22100#17



PN 22100 #18



PN 22100#19



PN 22100 #20



PN 22100 #21



PN 22100 #22



PN 22100 #23



PN 22100 #24



PN 22100 #25



PN 22100 #26



PN 22100 #27



PN 22100 #28



PN 22100#29



PN 22100 #30



PN 22100 #31



PN 22100 #32



PN 22100 #33



PN 22100 #34



PN 22100 #35



PN 22100 #36



PN 22100 #37



PN 22100 #38



PN 22100 #39



PN 22100 #40



PN 22100 #41



PN 22100 #42



PN 22100 #43
Best Available



PN 22100 #44



PN 22100 #45



PN 22100 #46



PN 22100 #47



PN 22100 #48



PN 22100 #49



PN 22100 #50



PN 22100 #51



PN 22100 #52



PN 22100 #53



PN 22100 #54



PN 22100 #55



PN 22100#56



PN 22100 #57



PN 22100 #58



PN 22100 #59



PN 22100 #60



PN22100#61



PN 22100 #62

CASE NO.: 221-00

CASE VEHICLE: 1999 Dodge

TYPE: New 1999 Quad Cab, 4x4 pickup

OCCUPANT: Driver's 39-year-old male

STATURE: 583 cm (6 ft, 1 in) MASS: 120 kg (265 lbs)

RESTRAINTS: 3-point belt (2) worn, airbag deployed
Ejected

SEVERITY: NASS - 3 ISS - 10

Estimated alcohol = .02 percent

